NO BEE OF A SECURITION AND AND A PROPERTY BEFORE

April 4, 1983

Note Stout Utsh Oli, Gas & Mining 4241 State Office Building Selt Lake City, UT 84114

Ser Mr. Stone:



DIVISION OF OIL GAS & MINING

Attached for your approval, please find two copies of the Application for Permit to Drill for Tendo Well Wo. 3 in Section 18, 1965, 2765.
See Just County, Utsh.

As our time frame on this well is extremely short with our lease due to expire soom, verbal approval of the APD would be greatly approxiated. Please call se at (307) 382-9791 if there are say quantities.

Besentfully.

Jemiier 1668 Continater Invitemental Affairs

m/dlb

Toclosures

\*\*\*

### STATE OF UTAM DEPARTMENT OF NATURAL ESCURCES



a Estate Birth State Sta DIVISION OF CHE & GAS Per f H isden Aboute or Total Page APPLICATION FOR PERMIT TO DRILL DEEPEN, OR PLUG BACK T. Unit Agreement Nine Deut I MUS BACE [] A. Type of Wall Z IV Sense ... Marine [ S. Farm or Lagon Brane I Many of Charmain Teolo i. Well No. 12 Field and Paci or Wildrey f.o. due 458; Each Springs, WI 82901 E. Carrier of West | Marrier Court, and is considered with any class of the court o Fildrar N. Am. T. E. M. of Hill ME 5M, 2100' FEL, 2050' FML तेर हत्याच्याची आसे, स्टार 10-365-26E, SLB & M the familiary of these and district their answer and part office. The Samuely and Proceeds II State San Joan Tren 15 miles South and West of Dave Creek, Colorado his tributions time propagated formation to mention the supplement of the first factor of many formation of the first formation of the fi 14. Has all server in boson VI. The sil serve amongseed is this will 560 ° iso 136 IS I PARTY TOWN A PROPERTY AND ADMINISTRATION OF A PARTY AND A PAR in the same of the same "Ha Mariniye eo gailig Linds N/A Boterr II. Areros, data work will short a 497° Tree Approval

PRINCES CANNO AND CONTROL PROCESS

Large Burgh

2000

6425

Water for Frank

\*\*\*

37

\* See attached drilling plan

Sing of Carles

Man of Man

12-1/4

5-1/4

APPROVED BY THE STATE

APPROVED BY THE STATE

OF UTAH DIVISION OF

OIL, GAS, AND MINING

OIL, GAS, AND MINING

DATE: Juneary State

BY:

Quantity of Consent

To be determined

Tipcale\*

180 sacks with 1% Call & 1/49

A ACTUAL STACK DESCRIPTION PROCESS TO ANGEL IN SECURITIES OF SAME OF PROCESS PROCESS AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED A

 		4.		
 		man	The Dilling Superistaniant	Date 4/4/83
 This at	men for federal a	dade office was		pro profit in the control of the con
	XXIII		Apprend State .	t o'r ddiffers sawriaith o'r rhan o'r Adal ac Town ag chw'r o'r gann o'r 'r
	d by			The second secon



### POWERS ELEVATION

2050° 1001 × 2

75.12 chains

Operator Calc	illy Spergy Co.		UKULA # 3
Section 10	Tomahir 36	South Paper 28 E	ist Meridian and
Footiages	2100 FEL & 208	Commence of the second	County/State Sen Juan. Dtah
Elevation 66		Mested by conster Read	The state of the s
The shove plat of my knowled;	is true and co	Trect to the best	Salaman Salaman
18 March	1981	Graid G. Woodle Utah Exception	Water L.S.
		Utah Exception	TO SEEL y Live De .

### Drilling Flan Celsins Energy Company Scolo Well Ro. 3 San Juan County, Stab

### 1. SURFACE FORMATION: Dakota

### 2 & 3. ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL MEARING MEMATIONS:

KEISKE	250
ENTRADA	1115
CARMEL	1350'
NAVAE	LIM'-fresh water
CHIMLE	1930'
SHIMARIMP	2705
COTLER	2935*
HOMATER TRAIL	4625*
PARADOX	5350 °
ISMAY (Rase 2nd Shale)	60307
ISMAY ZONE	6080'-possible cil
A ZONE SHALE	6215*
DESERT CREEK	6275
LOWER BENCH, DESERT CREEK	6325*
desert celek kansite	6335'-possible oil
SALT	6420

### 4. CASING PROGRAM:

<u>Footage</u> 2000	\$1.50 9-5/8	<u>Grade</u> <b>K</b> -55	36 E.	Condition New	Std. STAC	Cement 180 sacks with 3% CaCl & 1/4f fl 375 sacks with 10f gilammite, 2% CaCl & 1/4f flocele	
<b>400</b> 0	- <b>S</b>	K-55	23		Srd, STAC	To be determined	
1750	7	Z~55	26	Sev	Std, LIGC	To be determined	
575	7	N-80	25	1	Brd, LTSC	To be determined	

- 5. PRESCUE CONTROL EQUIPMENT: (See attached diagram) Operator's minimum specifications for pressure control equipment requires a 10-inch 1000 pai double gate blowout preventer. Surface casing and all preventer reservit be pressure tested to 2500 pai for 15 minutes using rig pump and mad. NOP's will be checked daily as to mechanical operating condition and will be tested by rig equipment after each string of casing is run. All res type preventers will have hand wheels which will be operative at the time the preventers are installed.
- 6. MID PERCEPH: Gel water have mud from surface to ID.

Sufficient and materials to maintain and proparies, control lost circulation and to contain blowout will be available at the wellsite.

### ADMILARY BANGMENT:

- a) Manually operated helly cock
- b) No floats at bit
- e) Manitoring of and system will be visual

- d) Full opening floor valve manually operated
- H. LAXXIM: DIL-SFL and CEL-FIX from surface casing to TD

TESTING: One DST in Desert Creek Porosity

CORING: One core in Desert Creek Porosity, 6325'-6385'

- 9. ABMORMAL PRESSURE AND TEMPERATURE: Pressures of 3600-3700 psi expected in Desert Creek Porosity, BHT of 140°F
- 10. ARTICIPATED STARTING DATE: Upon approval

DURATION OF OPERATION: 21 days

f-t"

OPERATOR CELSIUS	ENEABY CO	والمساورة والمراورة	DATE 4-4-83
WELL NAME UCOLO #	<del>4</del> 3	Manda da maio di manda di man	anga singga dan mangangga yang ngang dikinan karakin dan singga panga katan karakin ang mga mga mga mban
SEC <u>NESW 10</u> T	365 R Z	62- COUNTY _	SAN JUAN
	and the contract of the contra		
POSTING CHECK OFF:			
INDEX		HL	
NID		PI	
MAP			
WELL NAME UCOLO # 3  SEC NESUN 10 T 365 R 264 COUNTY SAN JUAN  43-037-30875  API NUMBER TYPE OF LEASE  POSTING CHECK OFF:  INDEX  NID  PI			
PROPER DAIL	ING LOCATION	N	
UK/			
APPROVAL LETTER:	te de contragione de contracto de contracto de la contracto de contracto de contracto de contracto de contracto		
	UNIT	c-3-a	186-4 12-18-8 CAUSE NO. & DATE
с-3-ь		c-3-c	
SPECIAL LANGUAGE:			

V	RECONCILE WELL NAME AND LOCATION ON APD AGAINST	SAME	DATA C	N PLAT	MAP
	AUTHENTICATE LEASE AND OPERATOR INFORMATION				
	AUTHENTICATE LEASE AND OFERATOR INFORMATION			V .	
V	VERIFY ADEQUATE AND PROPER BONDING TOLANAL	7			
W	AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.				
	APPLY SPACING CONSIDERATION				
•	X ORDER 186-4				
	UNIT		4		
	c-3-b			•	
	c-3-c	· · · · · · · · · · · · · · · · · · ·			
4	CHECK DISTANCE TO NEAREST WELL.				
	CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERAT	OR'S (	OTHER W	ELLS.	
	IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON	APPROV	/AL LET	TER	
	IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROV	'AL LAI	VGUAGE.		

April 4, 1983

Celsius Energy Company
P. O. Box 458
Rock Springs, Wyoming 82901

RE: Ucolo #3

NESE Sec. 10, T. 36S, R. 26E

2100' FSL, 2080' FWL San Juan County, Utah

### Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 186-4 dated December 18, 1980.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer

Office: 533-5771 Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30875.

Sincerely,

Norman C. Stout

Administrative Assistant

NCS/as Enclosure

## DIVISION OF OIL, GAS AND MINING

## SPUDDING INFORMATION

NAME OF COMPANY:_	CELSIUS E	NERGY COMPA	NY			
WELL NAME: UCOLO	0 #3					
SECTION NESE 10	TOWNSHIP	36S RANGE	26E	_ COUNTY	San Juan	<u> </u>
DRILLING CONTRACTO	)R Arapah	oe				
RIG #						
SPUDDED: DATE	4-12-83					
TIME	Midnight					
How	Rotary					
DRILLING WILL COMM	MENCE					
DATELING WILL COM	164 TOL		<del></del>			
REPORTED BYC	athy Flansburg		<del></del>			
TELEPHONE #30			* .			
<b>DATF</b> 4-13-8			SIGNED	AS		

REPAIRING WELL

ALTERING CASING

Supplementary History

16.

NOTICE OF INTENTION TO:		ENT REPORT OF:	a de la companya de La companya de la co
16. Check Appropriate Box To Indicate Nature	e of Natice, Report, or O	ther Data	
API #43-037-30875 GR 6633	"No	San Juan	Utah
14. PERMIT NO. 15. BLEVATIONS (Show whether DF, RT, G	IR, eta: V/A	12. COUNTY OR PARISE	18. STATE
NE SW 2100' FSL, 2080' FWL	SON OF S	SURVEY OR AREA	
At surface	V10 38 700 (5)	Wildcat	St.E. AVA
4. LOCATION OF WELL (Report location clearly and in accordance with any State See also space 17 below.)	requirements.	10. FIELD AND POOL, C	R WILDCAT
P. O. Box 458, Rock Springs, WY 82901	An VIII	3	
8. ADDRESS OF OPERATOR		9. WELL NO.	
Celsius Energy Company	155(0)	Ucolo	
2. NAME OF OPERATOR	18/3	8. FARM OR LEASE NA	XB
OIL GAS OTHER	Des	II VIII MERSONENI N	
1.		7. UNIT AGREEMENT N	AMB
SUNDRY NOTICES AND REPORTS ON  (Do not use this form for proposals to drill or to deepen or plug back to  Use "APPLICATION FOR PERMIT—" for such proposals.	WELLS to a different reservoir. sis.)		
CULIDAY MOTICES AND DEPONTS ON	14074 4 6	6. IF INDIAN, ALLOTTI	E OR TRIBE NAME
OIL & GAS CONSERVATION COMMISSION		Fee	
	(Other instructions on reverse side)	5. LEASE DESIGNATION	AND SERIAL NO.
STATE OF UTAH	SUBMIT IN TRIPLICATE.		
OGCC-1 be			

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

TD 5933', Drilling.

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

Spudded April 12, 1983, at 12:00 P.M. Ran and cemented 14" line pipe and 9-5/8" casing.

18. I hereby certify that the foregoing is true and correct SIGNED Mallice	Assistant TITLE Drilling Superintendent	DATE April 22, 1983
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

Celsius	Energy	Company
	Operato	or and

Ucola #3

Well Name and No.

1 & 2 DST No.

Dear Sirs:

Please find attached a revised sample report for DST #1 & #2. The original report indicated that  $R. + + \cdot \cdot \cdot \cdot \cdot$  of the smaples was chlorides. This should read NACL as shown in the attached.

Rw



DIVISION OF OIL, GAS & MINING

# Sampler Report

ountyS	olume of Sampler:       2150         plume of Sample:       1400         assure in Sampler:       30         Oil:       5         Water:       1000         Mud:       395 gas cut muc         Ges:       .09	Ticket No	4/25/83 04151		
ountyS	an Juan				
st Interval6	320-6365 Ft		State	litah	
		*	DST No		
Total Volume of Sample	)r:	2150			CO
Total Volume of Sample	):	1400			
					psi
Oil	•				
Water	•	1000			
Mud		395 gas cu	t mud	•	CC
Other	•				
<u> </u>			1.0.00		
		Resistin	: .1 @ 63° = 80,000	ppm, NACL	
Make Up Water					
	. •		Salinity Content		ppm
Supple 03	<u> </u>	68°F	Salinity Content	9100	ppm
Gas/Oil Ratio				OAPI @	o <sub>F</sub>
Where was sample draine	d	On location.			
Remarks: Reco					· .
	Top Sa	mple R.W.:	2 0 65°F = 35,000	O ppm. NACL	
	Middle	Sample R.W.:	1 0 65°F = 80,000	D ppm NACL	
				• • • • • • • • • • • • • • • • • • • •	

# Sampler Report

Company	Celsius E	nergy Co	mpan	Y	Date	4/27/83	
Well Name & No	. <u>Ucola # 3</u>	}		·	Ticket No	04151	·
County	San Juan		<del></del>		State	Utah	
Test Interval	6316-6398	ß Ft.			DST No	2	
Total Volum	e of Sample:	2150	<del></del>				cc.
Pressure	in Sampler:	30				-	psig
	Oil: _	None					сс.
	Water: _	800					сс.
	Mud: _	1000	· · · · · · · · ·				cc.
	Gas:	None					cu. ft.
· ·					lightly oily mud = 200,000+ ppm. N		
					Salinity Content_		
Mud Pit Sam	ple	.6	@_	70°F	Salinity Content _	10,000	ppm.
Gas/Oil Ratio	)		<del></del>	Gravity		OAPI @	oF
Where was sa	ample drained_	On loc	ation	n.			
Remarks:		Recove	ry:				
				Top Sample R.W.	: .38 @ 68°F	= 17,000 NACL	
				Middle Sample R	R.W.: .15 @ 70°F	= 48,000 NACI	
· · · · · · · · · · · · · · · · · · ·				Bottom Sample R	R.W.: .10 @ 68°F	= 78,000 NACL	
							·
		<del></del>					·····

Celsius Energy Company	Ucola #3	1 & 2
Operator	Well Name and No.	DST No.

Dear Sirs:

Please find attached a revised sample report for DST #1 & #2. The original report indicated that R.W. of the smaples was chlorides. This should read NACL as shown in the attached.

# Sampler Report

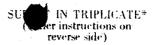
				Date	4/27/83	
I Name & No. Ucola #	3			Ticket No	04151	
inty San Juan						
t Interval 6316-639	8 Ft.			DST No	2	·
Total Volume of Sampler:						<del></del>
Total Volume of Sample:	2150		* ·			
Oil: _	None					C
Water:	800		**************************************			c
Mud: _	1000					C
Gas: _	None					cu.
				ightly oily mud		
***************************************	Sample	K.W.:		200,000+ ppm. N	ACL	
Make Lin Weter			Resistivity			
Make Up Water	<b>60 40</b>	@	Resistivity	Salinity Content_		ppr
Mud Pit Sample	.6	@ @	Resistivity 70°F	Salinity Content Salinity Content_	10,000	ppr
Mud Pit Sample	.6	@ @	Resistivity 70°F Gravity	Salinity Content Salinity Content_	10,000	ppr
Mud Pit Sample	.6	@ @	Resistivity 70°F Gravity	Salinity Content Salinity Content_	10,000	ppi
Mud Pit Sample	.6	@ @ ation	Resistivity 70°F Gravity	Salinity Content Salinity Content_	10,000	ppr
Mud Pit Sample  Gas/Oil Ratio  Where was sample drained	 6  On_loc	eeation.	Resistivity 70°F Gravity	Salinity Content Salinity Content_	0,000 OAPI @	ppr
Mud Pit Sample  Gas/Oil Ratio  Where was sample drained	 6  On_loc	eeation.	Resistivity 70°F Gravity p Sample R.W.	Salinity Content_	10,000 OAPI @ = 17,000 NACL	ppr
Mud Pit Sample  Gas/Oil Ratio  Where was sample drained	 6  On_loc	e ation.	70°F Gravity  p Sample R.W.  ddle Sample R.	Salinity Content Salinity Content38 @ 68°F	10,000 OAPI @ = 17,000 NACL = 48,000 NACL	ppr
Mud Pit Sample  Gas/Oil Ratio  Where was sample drained	 6  On_loc	e ation.	70°F Gravity  p Sample R.W.  ddle Sample R.	Salinity Content  Salinity Content  38 @ 68°F  W.: .15 @ 70°F	10,000 OAPI @ = 17,000 NACL = 48,000 NACL	pp

## Sampler Report

	Ceisius Energy Company				
Date	ountySan_Juan				
Control William					
DST No1	st Interval 6320-6365 Ft.				
		1400			
psi psi					
		5	Oil:	•	
CC					
cu. f					
cu. f					
63° = 80,000 ppm, NACL	Resistivity	24111016			
	· · · · ·	•		Make the Make	
Salinity Contentppm		@ <u></u>		were ob water	
salinity Content 9100 ppm	<sup>о</sup> Е	<b>—</b> 68	. 65	Mud Pit Sample	
OAPI @O	rity	Gran	:	Gas/Oil Ratio	
·	ation.	On loc	drained		
			Recovery:	Remarks:	
55°F = 35,000 ppm NACL	l.: .2 @	Top Sample R.			
63 <sup>0</sup> F =105,000 ppm. NACL					
OAPI @ 65 <sup>O</sup> F = 35,000 ppm NACL 65 <sup>O</sup> F = 80,000 ppm NACL	nity	On location of the Control of the Co	drained	Gas/Oil Ratio Where was sample Remarks:	

(This space for Federal or State office use)

APPROVED BY CONDITI. VS OF APPROVAL, IF ANY:



		TATE OF UTA	AH.	er in		ions on		
		MENT OF NATURA ION OF OIL, GAS, A		URCES	rse sid	5. LEASE DESIGNATION  Fee	AND SEE	HAL NO.
	SUNDRY NOT (Do not use this form for propo Use "APPLIC	IICES AND REPO	ORTS (	ON WELLS ack to a different reservoir.		6. IF INDIAN, ALLOTTE	B OR TRI	BE NAME
1.	OIL GAS GAS OTHER					7. UNIT AGREEMENT NA	MB	
	Celsius Energy Compan	ny				8. FARM OR LEASE NAI Ucolo	(3	
3.	P. O. Box 458, Rock S					9. WELL NO.		
4.	LOCATION OF WELL (Report location of See also space 17 below.) At surface		with any	State requirements.		10. FIELD AND POOL, o	t WILDCA	LT
	NE SW, 2100' FS	3L, 2080' FWL				11. SEC., T., R., M., OR I	LK. AND	
14.	PERMIT NO.	15. BLEVATIONS (Show	phether or	PP (P etc.)		10-36S-26E-S		
	API 43-037-30875	GR 6633'		47.20°		12. COUNTY OR PARISH San Juan		ah
16.	Check A	ppropriate Box To Inc	dicate N	ature of Notice, Report, o	or Ot	her Data	<del></del>	
	NOTICE OF INTER					NT REPORT OF:		
	TIST WATER SHUT-OFF	PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING V	ELL	
	FRACTURE TREAT	MULTIPLE COMPLETE	_	FRACTURE TREATMENT		ALTERING CA	SING	
	SHOOT OR ACIDIZE	ABANDON*		SHOUTING OR ACIDIZING		ABANDONME	r• [	
	<del></del> -	CHANGE PLANS		(Other) Suppleme				X
17	Other)	In group (Clausian and A		Completion or Reco	mplet	f multiple completion ion Report and Log for	m.)	
	DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.) *	onally drilled, give subsur	face locati	defails, and give pertinent da ons and measured and true ve	ites, is rtical	cluding estimated date depths for all markers	of star	ting any les perti-
	TD 6398', rig release	ed 4:00 P.M., 4/	29/83,	rigging up complet	ion	tools.		
	Landed 9-5/8" OD, 364 Light and 200 sacks I on 4/15/83.	⊮, K−55, ST&C ca Regular B cement	sing a	t 2018.58', cemente returns, float hel	ed w	ith 500 sacks k, cement in p	Halco lace	
	DST #1: 6320'-6365', mins, FSI 240 mins, or recovered 30' gas and FSIP 3170, FHP 3992.	opened strong, g	as to	surface in 45 mins,	no	t enough to ga	uge,	
	DST #2: 6316'-6398', FO 240 mins, FSI 360 gas to surface, 240 m water, IHP 4147, IOFF	mins, opened we mins shut in tub	ak inc	ecovered 110' gas o	low ut	in 7 mins, 21 mud and 390' g	as cu	s t
	Landed $5\frac{1}{2}$ " OD, $17\#$ , Pozmix, displaced with held ok, cement in place.	th 148 barrels f	resh w	392.20', cemented vater, good returns,	ith fl	400 sacks 50- pating equipme	50 nt	
				MAY 1 3 1983		·		
18.	I hereby certify that the foregoing is		DIV I	OF OIL, GAS & MINING				<del></del>
	SIGNED Mare	<u>t</u>	LE Tr	<u> Superintende</u>	nt	. DATE May 1	0, 19	83

DATE \_

Box 12486 Houston, TX 77017

> Min. Min. Min.

> Min. Min. Min.

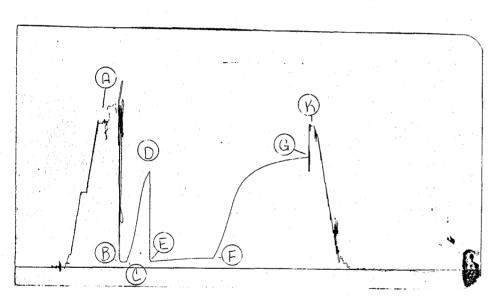
Contractor_	Arapahoe Drilling	Top Choke
	4	Bottom Choke 1"
Spot	NE-SW	Size Hole 8
Sec	_10	Size Rat Hole
Twp	36\$	Size & Wt. D. P. 41
Rng	26E	Size Wt. Pipe
Field	Haala	I. D. of D. C. 21
County	San Juan	Length of D. C. 61
State	<u>litah</u>	Total Depth 63
Elevation	6647 Ft. K.B.	Interval Tested 63
Formation_	Desert Creek	Type of TestBo

Choke 1	Flow No. 1	30
ttom Choke 1"	Shut-in No. 1_	88
e Hole 8 3/4"	Flow No. 2	240
e Rat Hole	Shut-in No. 2_	360
	Flow No. 3	
e Wt. Pipe	Shut-in No. 3_	
D. of D. C. 21"		
ngth of D. C. 615 Ft.	Bottom	
tal Depth 6398 Ft.	Hole Temp	140.6
erval Tested 6316-6398 Ft.	Mud Weight	12.2
pe of Test <u>Bottom Hole</u>	Gravity	

Viscosity.

Tool opened @ 8:38 AM

Conventional



Inside Recorder				
PRD Make Kuster	^ K-	3		
No. 24521 Cap. 66	525	@_6300'		
Press		Corrected		
Initial Hydrostatic	Α	4167		
Final Hydrostatic	K	4089		
Initial Flow	В	157		
Final Initial Flow	С	152		
Initial Shut-in	D	2753		
Second Initial Flow	E	174		
Second Final Flow	F	284		
Second Shut-in	G	3196		
Third Initial Flow	Н			
Third Final Flow	1			
Third Shut-in	J			

Lynes Dist. Rock Springs, WY. Our Tester: Lance Sipma Witnessed By Mike Sliger

Did Well Flow - Gas Yes Oil No Water No

RECOVERY IN PIPE:

500 Ft. Total fluid = 2.45 bbls.

20 Ft. Gas and oil cut mud = .10 bbl.

90 Ft. Gas cut mud = .44 bb1.

390 Ft. Gas and mud cut water = 1.91 bbls.

**Blow Description** 

1st Flow:

Tool opened with a 1" underwater blow, increased to 5" in 5 minutes, increased to 25" in 10 minutes, increased to 2 psi in 15 minutes, increased to 3 psi in 30 minutes.

2nd Flow:

Tool opened with a 2" underwater blow, increased to 3 psi in 15 minutes, gas to surface in 210 minutes with 3 psi,blow decreased to  $1\frac{1}{2}$  psi in 240 minutes. See Gas Volume Report.

Comments:

Both fluid and gas reservoir calculations are enclosed.

LY-230

Well Name and No. Ucola

Operator

Celsius Energy Company

Date 4/27/83

No. Final Copies

Celsius Energy Company Ucola # 3 Operator Well Name and No.	DST No.
---	---------

Comments relative to DST # 2 run on Ucola # 3, NE-SW-10-36S-26E in San Juan County, Utah for Celsius Energy Company

The enclosed calculations were performed by plotting the time pressure data on a semi-log scale and using the slope and extrapolated pressure in the appropriate calculations. Please note that the data for both fluid & gas analysis is enclosed.

In both cases the results indicate a zone of lower permeability with no damage to the zone indicated.

Please note that these calculations should be used as indicators only since many of the reservoir parameters have been estimated. These can be changed at any time without any inconvenience.

T.H. Adams, C.E.T. Technical Services Manager

### \*\*\* LYNES INC. \*\*\*

Operator	CELSIUS ENERGY COMPANY
Location	
DST Number	
Formation	
	BOTTOM HOLE CONVENTIONAL
Test interval:	6316-6398
Recorder number :	
Recorder depth :	6300

RESERVOIR CALCULATIONS: Fluid calculations based on 2nd shut-in

# RESERVOIR PARAMATERS USED: \*\*\*\*\*\*\*\*\*\*\*\*

Net Pay	10.00 ft.
Porosity	10.00 %
Compressibility (	00014 /psi
Flow rate	13.07 bb1/day
	79.08 psi
Slope 17	24.74 psi/cycle
Wellbore radius:	.36 ft.
Total flowing time: 2	270.00 minutes
Final flowing pressure: 2	284.00 psi
Formation vol. factor:	1.48 rb/stb
Viscosity	.50 ср

## RESULTS:

Effective Permeability(k):	.09 md
Flow capacity(kh):	91 md-ft
Transmissibility(kh/u):	1.82 md-ft/cp
Skin(s):	-1.67
Damage ratio	.58
Productivity index	.00 bbl-day/psi
Radius of investigation:	22.20 ft.

CELSIUS ENERGY COMPANY DST#: 2

UCOLA #3 6316-6398

Location: NE-SW-10-36S-26E Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 24521 Recorder Depth: 6300 ft.

### TIME-PRESSURE LISTING

CHART LABEL COMMENTS	TIME MIN.	DELTA P PSI	PRESSUR PSI	E (T+dt)/dt ABSCISSA	PRESSURE SQUARED PSI^2/10^6
A INITIAL HYDROSTATIC	0.0		4167.0		rar zziv d
B START OF 1st FLOW	0.0		157.0		
C END OF 1st FLOW	30.0		152.0		
1st SHUTIN PERIOD	0.0 6.0 12.0 18.0 24.0	0.0 115.0 241.0 386.0 555.0	205.0 320.0 446.0 591.0 760.0	0.0000 6.0000 3.5000 2.6667 2.2500	
			958.0 1380.0 1876.0 2302.0 2561.0	2.0000 1.7500 1.6000 1.5000	
D END OF 1st SHUTIN	80.0 90.0	2518.0 2618.0	2723.0 2823.0	1,3750 1,3333	
E START OF 2nd FLOW	0.0		174.0		
F END OF 2nd FLOW	240.0		284.0		
2nd SHUTIN PERIOD	0.0 6.0 12.0 18.0 24.0 30.0 40.0	0.0 87.0 178.0 276.0 385.0 501.0 718.0 962.0	365.0 452.0 543.0 641.0 750.0 866.0 1083.0	1.3333 46.0000 23.5000 16.0000 12.2500 10.0000 7.7500 6.4000	
	60.0 70.0 80.0 90.0 100.0 110.0 120.0 140.0 160.0 200.0 220.0	1231.0	1596.0	5.5000 4.8571 4.3750 4.0000 3.7000 3.4545 3.2500 2.9286 2.6875 2.5000 2.3500 2.2273 2.1250	

DST#: 2 UCOLA #3 6316-6398

Location: NE-SW-10-36S-26E Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 24521 Recorder Depth: 6300 ft.

### TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURI PSI	E (T+dt)/dt ABSCISSA	PRESSURE SQUARED
	the second second second	112111		r w.a.	UDGGTGGH	PSI^2/10^6
		260.0	2774.0	3139.0	2.0385	
		280.0	2805.0	3170.0	1.9643	
		300.0	2831.0	3196.0	1.9000	
		320.0	2856.0	3221.0	1.8438×	
		340.0	2876.0	3241.0	1.7941*	
G END	DF 2nd SHUTIN	360.0	2895.0	3260.0	1.7500*	
				•		
K FINA	L HYDROSTATIC	0.0		4089.0		

<sup>\*</sup> VALUES USED FOR EXTRAPOLATIONS

DST#: 2 UCOLA #3 6316-6398

Location: NE-SW-10-36S-26E

Test Type: BOTTOM HOLE CONVENTIONAL

Formation: DESERT CREEK

Recorder Number: 24521

Recorder Depth: 6300 ft.

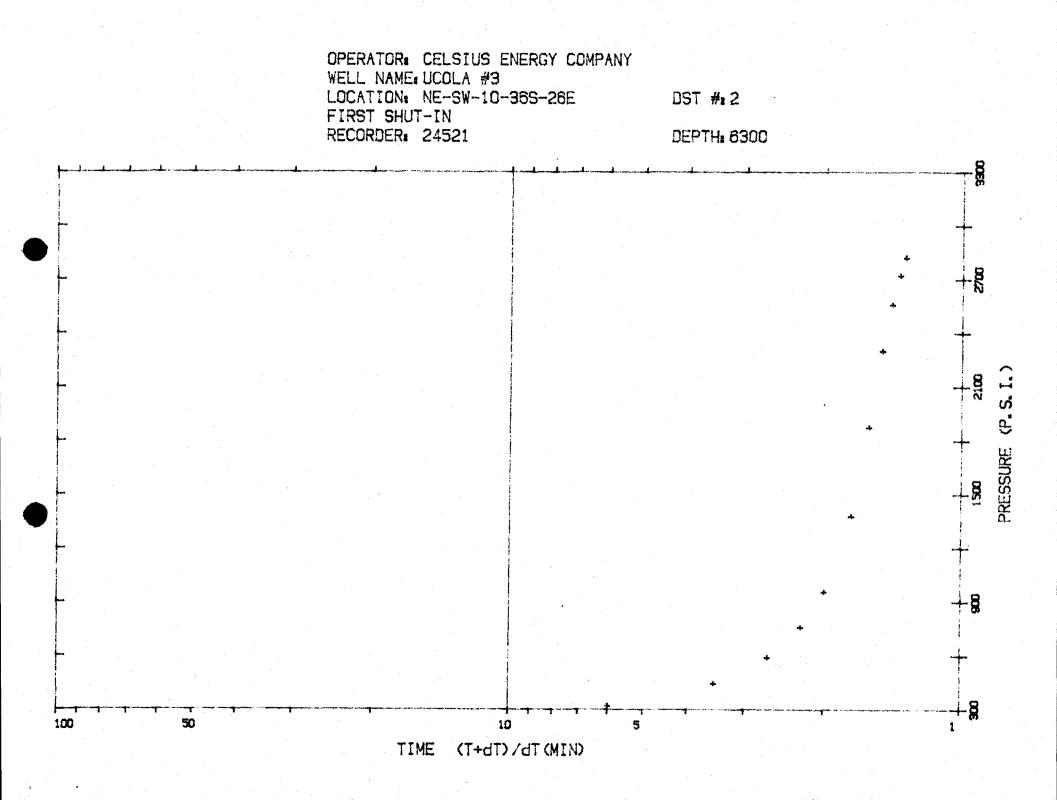
2nd SHUT-IN

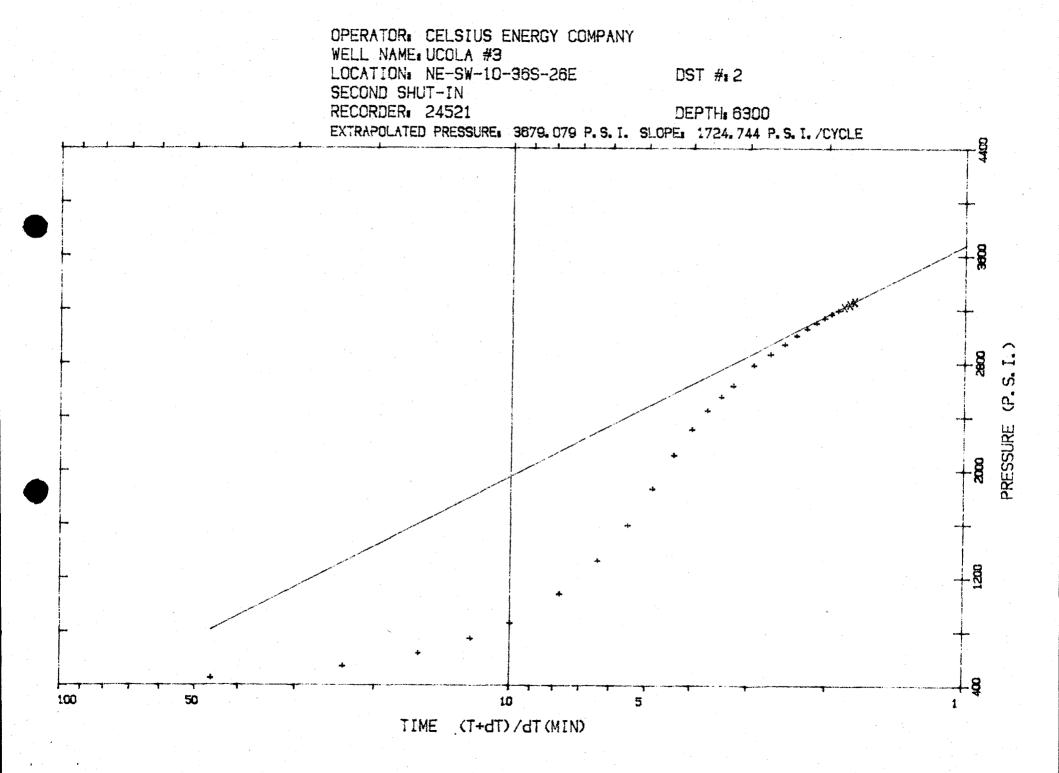
HORNER EXTRAPOLATION

3679.08 PSI

HORNER SLOPE

1724.74 PSI/cycle





### \*\*\* LYNES INC. \*\*\*

Operator....: CELSIUS ENERGY COMPANY Well ID..... UCOLA #3 Location..... NE-SW-10-36S-26E DST Number .... 2 Formation.... DESERT CREEK Type of test...: BOTTOM HOLE CONVENTIONAL Test interval...: 6316-6398 Recorder number : 24521 Recorder depth : 6300 RESERVOIR CALCULATIONS: Gas calculations based on 2nd shut-in \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* RESERVOIR PARAMETERS USED: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Bottom hole temp: 140.00 deg, F. Specific gravity: .650000 Porosity..... 10.00 % Z factor..... .867584 Net Pay.... 10.00 ft. Compressibility: .000197 /psi Flow rate.... 13.07 mcfd Viscosity.....; .013560 ср Total flowing time....: 270,000 minutes Final flowing pressure : 284,000 psi Horner Extrapolation...: 3651.491 psi Horner Slope..... 11.139 psi^2/10^6 Assumed drainage radius: 2082,000 ft. Wellbore radius..... .365 ft. RESULTS: \*\*\*\*\* Effective permeability....(k)..: .0014 md Flow capacity.....(kh),,: .0136 md-ft Transmissibility.....(kh/u)..; .9999 md-ft/cp Skin....(s)... -.9413

.5926

13.1515 mcfd

4.3827 ft.

Damage ratio.........

Absolute Open Flow...(AOF).....

Radius of investigation....:

DST#: 2 UCOLA #3 6316-6398

Location: NE-SW-10-36S-26E Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 24521 Recorder Depth: 6300 ft.

### TIME-PRESSURE LISTING

CHART LABEL COMMENTS	TIME MIN.	DELTA P PSI		RE (T+dt)/dt ABSCISSA	PRESSURE SQUARED PSI^2/10^6
A INITIAL HYDROSTATIO	0.0		4167.0		1 42 27 10 4
B START OF 1st FLOW	0.0		157.0		
C END OF 1st FLOW	30.0		152.0		
1st SHUTIN PERIOD	0.0	0.0	205.0	0.0000	0.0000
	6.0	115.0	320.0	6.0000	.1024
	12.0	241.0	446.0	3.5000	.1989
	18.0	386.0	591.0	2.6667	. 3493
	24.0	555.0	760.0	2.2500	. 5776
	30.0	753.0	958.0	2.0000	.9178
	40.0	1175.0	1380.0	1.7500	1.9044
	50.0	1671.0	1876.0	1.6000	3.5194
	60.0	2097.0	2302.0	1.5000	5.2992
	70.0 80.0	2356.0	2561.0	1.4286	6.5587
D END OF 1st SHUTIN	90.0	2518.0 2618.0	2723.0 2823.0	1.3750	7.4147
n min of the billettic	70.0	- 2010.U	2023.0	1.3333	7.9693
E START OF 2nd FLOW	0.0		174.0		
F END OF 2nd FLOW	240.0		284.0		
2nd SHUTIN PERIOD	0.0	0.0	365.0	1.3333	7.9693
	6.0	87.0	452.0	46.0000	.2043
	12.0	178.0	543.0	23.5000	.2948
	18.0	276.0	641.0	16.0000	. 4109
	24.0	385.0	750.0	12.2500	.5625
	30.0	501.0	866.0	10.0000	.7500
	40.0	718.0	1083.0	7.7500	1.1729
	50.0	962.0	1327.0	6.4000	1.7609
	60.0	1231.0	1596.0	5.5000	2.5472
	70.0 80.0	1502.0	1867.0	4.8571	3.4857
	90.0	1750.0	2115.0	4.3750	4.4732
		1943.0	2308.0	4.0000	5.3269
$\mathcal{V}_{i,j} = \{ (i,j) \mid i \in \mathcal{V}_{i,j} = \emptyset \}$	100.0 110.0	2083.0 2186.0	2448.0 2551.0	3.7000 3.4545	5.9927
	120.0	2270.0	2635.0		6.5076
	140.0	2421.0	2786.0	3.2500 2.9286	6.9432 7.7618
	160.0	2503.0	2868.0	2.6875	8,2254
	180.0	2579.0	2944.0	2.5000	8.6671
	200.0	2643.0	3008.0	2.3500	9.0481
	220.0	2694.0	3059.0	2.2273	9.3575
	240.0	2738.0	3103.0	2.1250	9.6286
				-	- A set twee set MA

DST#: 2 UCOLA #3 6316-6398

Location: NE-SW-10-36S-26E

Recorder Number: 24521 Test Type: BOTTOM HOLE CONVENTIONAL

Recorder Depth: 6300 ft.

Formation: DESERT CREEK

### TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P	PRESSUR PSI	E (T+dt)/dt ABSCISSA	SQUARED
						PSI^2/10^6
		260.0	2774.0	3139.0	2.0385	9,8533
		280.0	2805.0	3170.0	1.9643	10.0489
		300.0	2831.0	3196.0	1.9000	10.2144
		320.0	2856.0	3221.0	1.8438*	10.3748
		340.0	2876.0	3241.0	1.7941*	10.5041
G END	OF 2nd SHUTIN	360.0	2895.0	3260.0	1.7500×	10.6276
K FIN	AL HYDROSTATIC	0.0		4089.0		

VALUES USED FOR EXTRAPOLATIONS

Page 3

CELSIUS ENERGY COMPANY

DST#: 2 UCOLA #3 6316-6398

Location: NE-SW-10-36S-26E

Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

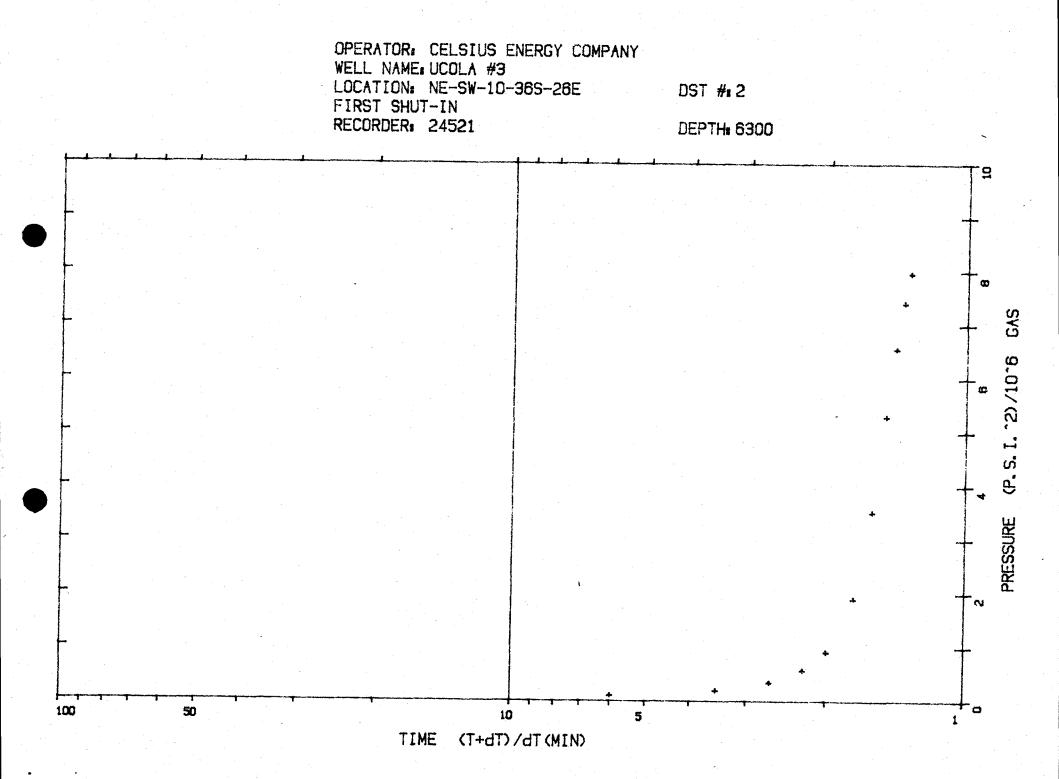
Recorder Number: 24521

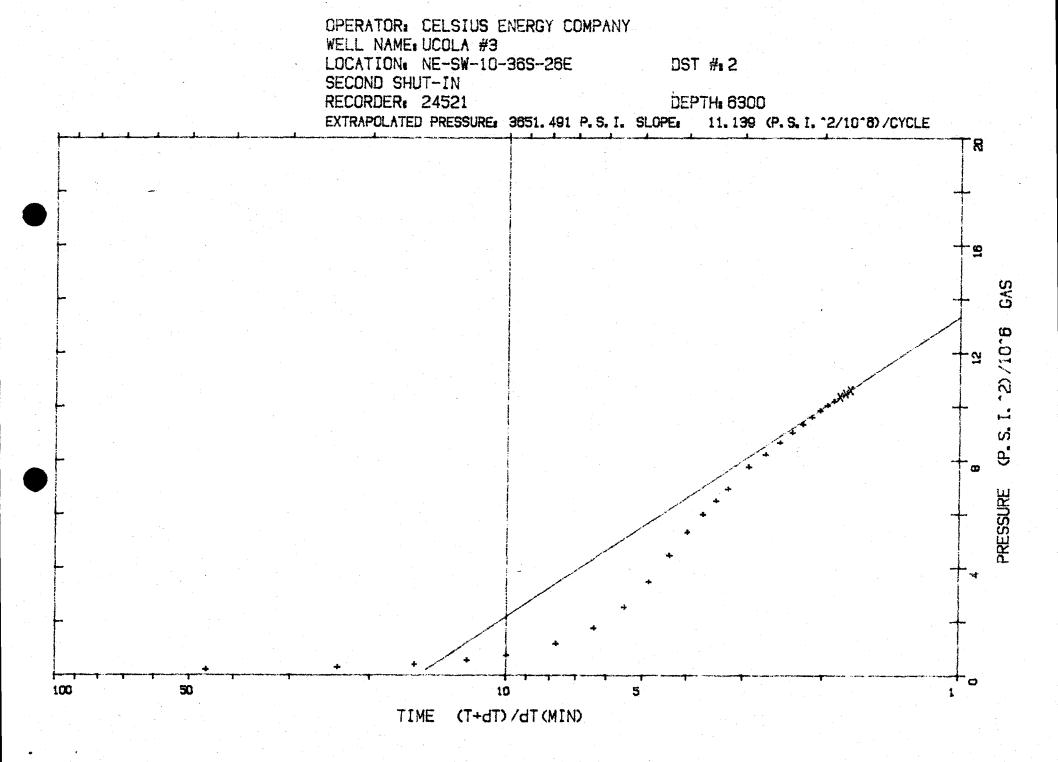
Recorder Depth: 6300 ft.

2nd SHUT-IN

HORNER EXTRAPOLATION 3651.49 PSI

11.14 (PSI^2/10^6)/cycle HORNER SLOPE





### Gas Volume Report

Ce1	sius Energ	gy Company Operator		Ucola # 3	2	
		Operator		Well Name and No.	DST No.	
Min.	PSIG	Orifice Size	MCF/D	<u> </u>		
210	3	1 " 4 "	26.5	Comments		
240	1 <del>1</del>	1 11 4		Final flow	Ministratorios (1977) e esta la participa de l	
740	1.5	4	14.0			
		<del>                                     </del>				
				•		
	arks:					

## Sampler Report

mpany <u>Celsiu</u>	s Energy C	ompany		Date	4/27/83	
II Name & No. Ucola	#_3	······································		Ticket No	04151	
unty San Jua	an			State	Utah	
st Interval 6316-63	398 Ft.			DST No	2	
Total Volume of Sample	er: 2150					cc.
Total Volume of Sample	2150					cc.
Pressure in Sample	r: 30					
Oi	ı: None					
	r:800					
•						
Othe				ightly oily mud		
	Sampl	e R.W.:		200,000+ ppm.	cl.	
			Resistivity			
Make Up Water		@		Salinity Content		ppm.
Mud Pit Sample	.6	@	70°F	Salinity Content -	10,000	ppm.
Gas/Oil Ratio		<del></del>	Gravity		OAPI @	o <sub>F</sub>
Where was sample drain	ed <u>On lo</u>	cation.				
Remarks:	Recov	ery:				
		Т-	op Sample R.W.	: .38 @ 68°F	= 17,000 ppm.	cl.
				.W.: .15 @ 70°F		
				.W.: .10 @ 68°F	••••	
			occom Jampie K	• M • • • • • • • • • • • • • • • • • •	- 70,000 ppm.	CI.
		<del></del>	to the same of		·	

DST#: 2 UCOLA #3 6316-6398

PRESSURE RECORDER NUMBER : 1622

DEPTH : 6398.00ft.

LOCATION : OUTSIDE

TYPE : DMR

CAPACITY: 5000.00 PSI

PRESSURE PSI

A) Initial Hydro: 4181.0

B)1st Flow Start: 342.0 C)1st Flow End: 205.0

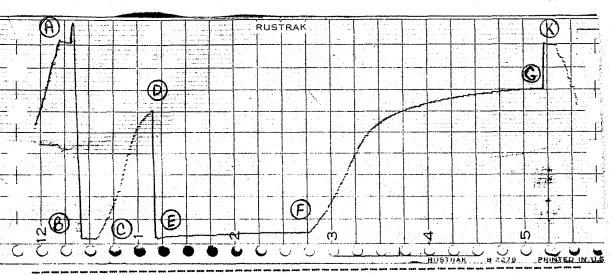
D)END 1st Shutin: 2823.0

E)2nd Flow Start: 351.0

F)2nd Flow End : 346.0

G)END 2nd Shutin: 3260.0

K)Final Hydro. : 4181.0



TEST TIMES (MIN)

1st FLOW : 30

SHUTIN: 88 2nd FLOW :240

SHUTIN:360

TEMPERATURE RECORDER NUMBER : 1622

DEPTH : TYPE :

6398.00 ft.

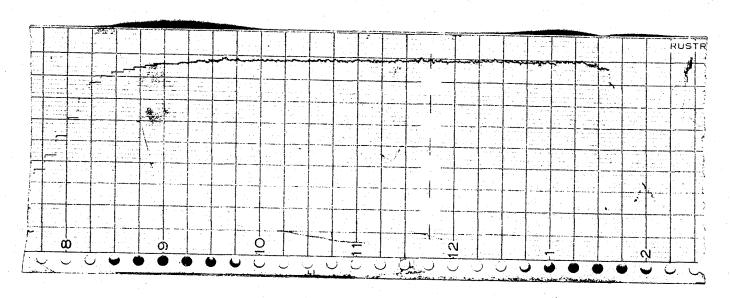
DMR

LOCATION : OUTSIDE

CAPACITY : 5000.00 PSI

**TEMPERATURE** 

140.6<sup>0</sup>F



# Distribution of Final Reports

Celsius Ene	rgy Company Ucola #3 Operator Well Name and No.
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### LYNES, INC.

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Well Name and No. Ucola

4/25/83

No. Final Copies

DST No.

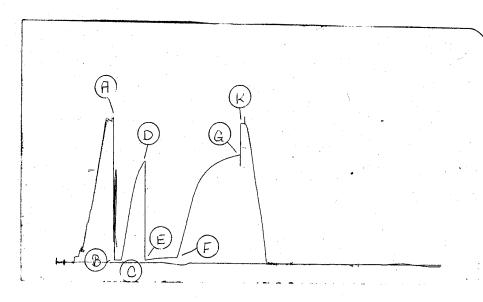
**Operator** 

Contractor	Arapahoe Drilling
Rig No	4
Spot	NE-SW
Sec	10
Twp.	365
Rng.	26E
Field	Ucola
County	San Juan
State	Utah
Elevation_	6646 Ft. K.B.
Formation.	Desert Creek

Top Choke	1/4"
Bottom Choke_	1"
Size Hole	8 3/4"
Size Rat Hole	
Size & Wt. D. P.	4 1/2" XH 16.60
Size Wt. Pipe	~-
I. D. of D. C	2 1/4"
Length of D. C	645 Ft.
Total Depth	6400 Ft.
Interval Tested_	6320-6365 Ft.
Type of Test	Bottom Hole
	Conventional

Flow No. 1 Shut-in No. 1_	00	Min. Min.
Flow No. 2	120	Win.
Shut-in No. 2_	240	Min.
Flow No. 3		Min.
Shut-in No. 3_		Min.
Bottom Hole Temp Mud Weight Gravity Viscosity	12.2	

Tool opened @ 9:35 A.M



			1			
Inside Recorder						
PRD Make Kuste	r K-		1			
No. 24521 Cap. 66	25	@_630] <b>'</b>				
Press		Corrected				
Initial Hydrostatic	Α	4069	1			
Final Hydrostatic	,K	4011	1.			
Initial Flow	В	83	15			
Final Initial Flow	С	83	] cket			
Initial Shut-in	D	2928	8			
Second Initial Flow	E	78	1°			
Second Final Flow	F	141	1			
Second Shut-in	G	3116	10			
Third Initial Flow	Н		0415			
Third Final Flow	ı		5			
Third Shut-in	J		1			
			1			
		T	1			

Lynes Dist.:	Rock S	orinas.W	Y
Our Tester:	Lance	Sioma	-
Witnessed By:_	Mike S	liger	

Did Well Flow - Gas Yes Oil No Water No

RECOVERY IN PIPE:

310 Ft. Total Fluid = 2.01

30 Ft. Oil and gas cut mud = .15 bbl.

280 Ft. Gas and mud cut water = 1.86 bbls.

Blow Description:

1st Flow:

Tool opened with a surface blow, increased to 8 psi in 5 minutes, increased to 10 psi at the end of the flow period.

2nd Flow:

Tool opened with blow at the bottom of the bucket, increased to 3 psi in 15 minutes, increased to 4 psi in 45 minutes with gas to surface at 45 minutes, See Gas Volume Report, decreased to 1 psi in 60 minutes, decreased to 8" in 85 minutes and remained thru the end of the flow period.

Comments:

Reservoir Calculations are enclosed for both fluid and gas.

Form

### LYNES, INC.

Celsius Energy Company	Ucola #3		1
Operator		Well Name and No.	DST No.

Comments relative to DST #1 run on Ucola #3, NE-SW-10-36S-26E, in San Juan County, Utah for Celsius Energy Company.

The enclosed calculations and analysis were performed by plotting the time pressure data on a semi-log scale and using the slope and extrapolated pressure in the appropriate fluid and gas calculations. Please note that plots and calculations for both a fluid and gas case are enclosed as well as two time pressure listings.

The results in both instances indicate a zone of low permeability with no damage indicated in either the fluid or gas calculations.

It should be noted that these calculations should be used as indicators only since many reservoir parameters used have been estimated. These can be changed at any time without any inconviences.

T.H. Adams, C.E.T. Manager Technical Services

### \*\*\* LYNES INC. \*\*\*

Operator.....: CELSIUS ENERGY COMPANY

Well ID..... UCOLA #3

Location..... NE-SW-10-36S-26E

DST Number..... 1

Formation..... DESERT CREEK

Type of test...: BOTTOM HOLE CONVENTIONAL Test interval...: 6320-6365

Recorder number : 24521 Recorder depth : 6301

RESERVOIR CALCULATIONS: Fluid calculations based on 2nd shut-in \***\*** 

.50 ср

#### RESERVOIR PARAMATERS USED: \*\*\*\*\*

Viscosity....

~~~~~~~~~~~~~~~ <del>~~~~~~~~~~~~~~~~~~~~~~</del>		
Net Pay	10.00	ft.
Porosity	10.00	
Compressibility;	.000014	
Flow rate	19.56	
Extrapolation	3659.57	
Slope	2373.80	psi/cycle
Wellbore radius	. 36	
Total flowing time:	148.00	minutes
Final flowing pressure:	141.00	psi
Formation vol. factor :	1.48	rb/stb
Uiecneitu	er A	

### **RESULTS:** \*\*\*\*\*

Effective Permeability(k):	. 10	md
Flow capacity(kh):	. 99	md-ft
Transmissibility(kh/u);	1,98	md-ft/cp
Skin(s)	-1.97	1.3
Damage ratio:	. 46	
Productivity index	. 01	bbl-day/psi
Radius of investigation	17.14	f+



CELCIUS ENERGY

DST#: 1 UCOLA #3 6320-6365

Location: NE-SW-10-36S-26E

Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 1622 Recorder Depth: 6365 ft.

### TIME-PRESSURE LISTING

CHART LABEL COMMENTS	TIME MIN.	DELTA P PSI	PRESSUR PSI	E (T+dt)/dt ABSCISSA	PRESSURE SQUARED PSI^2/10^6
A INITIAL HYDROSTATIC	0.0		4187.0		F31 2/10 G
B START OF 1st FLOW	0.0		97.0		
C END OF 1st FLOW	28.0		126.0		
1st SHUTIN PERIOD	0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0 60.0	1077.0 1360.0 1632.0 1889.0 2112.0 2297.0 2449.0 2632.0	2238.0 2423.0 2575.0 2758.0	0.0000 5.6667 3.3333 2.5556 2.1667 1.9333 1.7778 1.6667 1.5833 1.5185 1.4667 1.4000	
D END OF 1st SHUTIN	80.0 90.0	2765.0 2864.0	2891.0 2990.0	1.3500	
E START OF 2nd FLOW	0.0		91.0		
F END OF 2nd FLOW	120.0		190.0		
2nd SHUTIN PERIOD	0.0 6.0 12.0 18.0 24.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100.0	0.0 141.0 296.0 430.0 629.0 806.0 1115.0 1421.0 1706.0 1951.0 2146.0 2295.0 2409.0	190.0 331.0 486.0 620.0 819.0 996.0 1305.0 1611.0 1896.0 2141.0 2336.0 2485.0 2599.0 2690.0	1.3111 25.6667 13.3333 9.2222 7.1667 5.9333 4.7000 3.9600 3.4667 3.1143 2.8500 2.6444 2.4800 2.3455	
	120.0 130.0 140.0 150.0 160.0	2575.0 2638.0 2693.0 2738.0 2779.0	2765.0 2828.0 2883.0 2928.0 2969.0	2.2333 2.1385 2.0571 1.9867 1.9250	

CELCIUS ENERGY DST#: 1 UCOLA #3 6320-6365

Location: NE-SW-10-368-26E

Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 1622

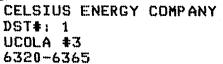
Recorder Depth: 6365 ft.

### TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE PSI	: (T+dt)/dt ABSCISSA	PRESSURE SQUARED
						PSI^2/10^6
		170.0	2814.0	3004.0	1.8706	
		180.0	2844.0	3034.0	1.8222	
		190.0	2871.0	3061.0	1.7789	
		200.0	2897.0	3087.0	1.7400	
		210.0	2918.0	3108.0	1,7048	
		220.0	2939.0	3129.0	1.6727*	
		230.0	2958.0	3148.0	1.6435*	
G END	OF 2nd SHUTIN	240.0	2974.0	3164.0	1.6167*	
KFIN	AL HYDROSTATIC	0.0		4137.0		

VALUES USED FOR EXTRAPOLATIONS

Page 3



Location: NE-SW-10-36S-26E

Test Type: BOTTOM HOLE CONVENTIONAL

Formation: DESERT CREEK

Recorder Number: 24521

Recorder Depth: 6301 ft.

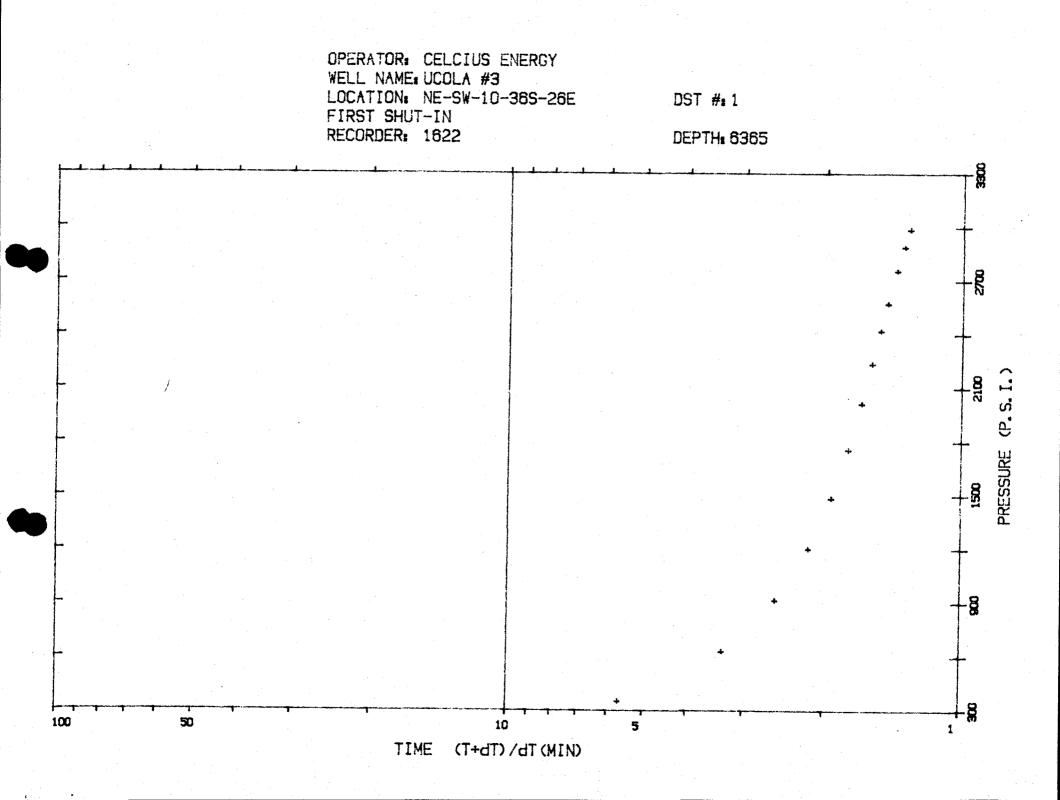
2nd SHUT-IN

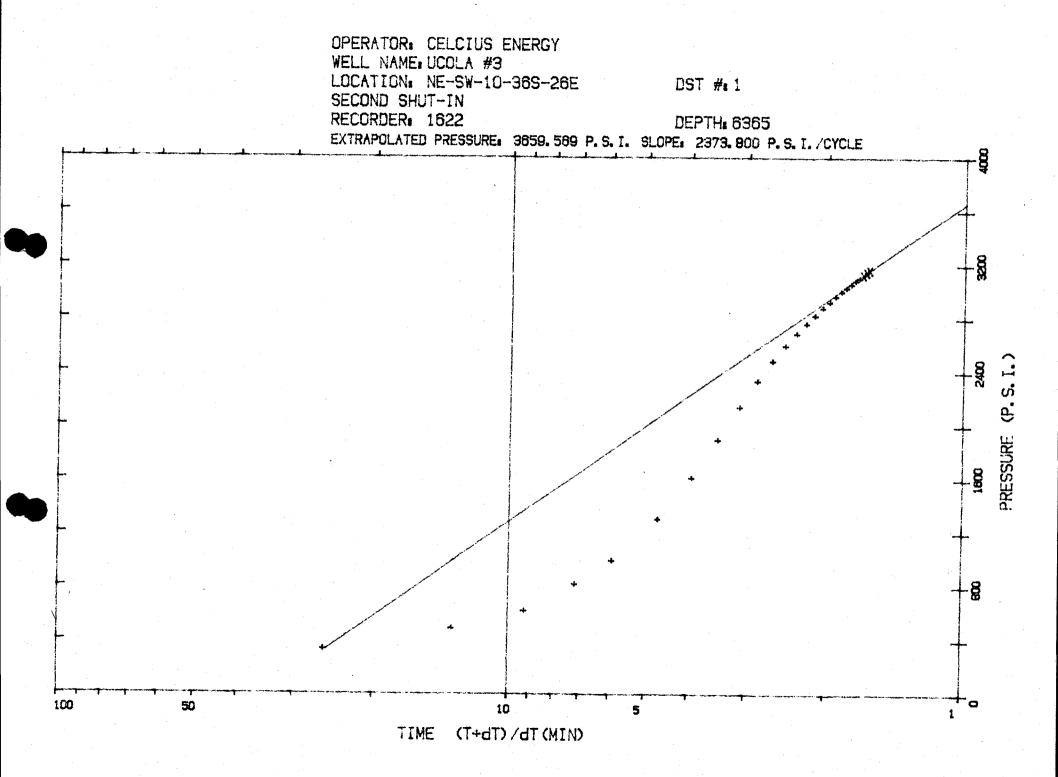
HORNER EXTRAPOLATION

3624.50 PSI

HORNER SLOPE

14.97 (PSI^2/10^6)/cycle





Operator..... CELSIUS ENERGY COMPANY

Well ID..... UCOLA #3

Location....: NE-SW-10-36S-26E

DST Number ..... 1

Formation....: DESERT CREEK

Type of test....: BOTTOM HOLE CONVENTIONAL

Test interval...: 6320-6365

Recorder number: 24521 Recorder depth: 6301

RESERVOIR CALCULATIONS: Gas calculations based on 2nd shut-in

### RESERVOIR PARAMETERS USED:

\*\*\*\*\*\*\*\*\*\*\*\*

Bottom hole temp: 137.00 deg. F. Specific gravity: .650006 Porosity..... 10.00 % Z factor..... 867584

Net Pay.....: 10.00 % Z factor....: .867584 Compressibility: .000197

Flow rate....: 10.00 ft. Compressibility: .000197 /psi
Flow rate....: 19.56 mcfd Viscosity....; .013560 cp

Total flowing time....: 148,000 minutes

Final flowing pressure: 141.000 psi Horner Extrapolation...: 3624.504 psi

Horner Slope..... 14.973 psi^2/10^6

Assumed drainage radius: 2082.000 ft.

Wellbore radius..... .365 ft.

### RESULTS:

\*\*\*\*\*

Effective permeability....(k)..: .0015 md

Flow capacity......(kh)..: ,0150 md-ft

Transmissibility.....(kh/u)..: 1.1076 md-ft/cp

Skin....(s)..: -1.0531

Absolute Open Flow...(ADF)..... 19.5941 mcfd

Radius of investigation..... 3.4152 ft.



CELSIUS ENERGY COMPANY

DST#: 1 UCOLA #3 6320-6365

Location: NE-SW-10-36S-26E

Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 24521 Recorder Depth: 6301 ft.

### TIME-PRESSURE LISTING

CHA		COMME	NTS	TIME MIN.	DELTA P	PRESSUI PSI	RE (T+dt)/dt ABSCISSA	PRESSURE SQUARED PSI^2/10^6
A	INI	TIAL HY	DROSTATIO	0.0		4069.0		101 2710 0
В	STAF	RT OF 1	st FLOW	0.0		83.0		
C	END	OF 1st	FLOW	28.0		83.0		
	1st	SHUTIN	PERIOD	0.0 6.0 12.0 18.0 24.0	0.0 225.0 505.0 790.0 1077.0	126.0 351.0 631.0 916.0 1203.0	0.0000 5.6667 3.3333 2.5556 2.1667	0.0000 .1232 .3982 .8391 1.4472
				30.0 36.0 42.0 54.0 60.0	1360.0 1632.0 1889.0 2297.0 2449.0 2632.0	1486.0 1758.0 2015.0 2423.0 2575.0 2758.0	1.9333 1.7778 1.6667 1.5185 1.4667	2.2082 3.0906 4.0602 5.8709 6.6306
D	END	OF 1st	SHUTIN	90.0 90.0	2765.0 2864.0	2891.0 2990.0	1.3500	7.6066 8.3579 8.9401
E	STAR	T OF 2	nd FLOW	0.0		78.0		
F	END	OF 2nd	FLOW	120.0		141.0		
	2nd	SHUTIN	PERIOD	0.0 6.0 12.0 18.0 24.0	0.0 141.0 296.0 430.0 629.0	190.0 331.0 486.0 620.0 819.0	1.3111 25.6667 13.3333 9.2222 7.1667	8.9401 .1096 .2362 .3844 .6708
				30.0 40.0 50.0 60.0 70.0	806.0 1115.0 1421.0 1706.0 1951.0	996.0 1305.0 1611.0 1896.0 2141.0	5.9333 4.7000 3.9600 3.4667 3.1143	.9920 1.7030 2.5953 3.5948 4.5839
				80.0 90.0 100.0 110.0 120.0 130.0	2146.0 2295.0 2409.0 2500.0 2575.0 2638.0	2336.0 2485.0 2599.0 2690.0 2765.0	2.8500 2.6444 2.4800 2.3455 2.2333	5.4569 6.1752 6.7548 7.2361 7.6452
				140.0 150.0 160.0 170.0	2693.0 2738.0 2779.0 2814.0	2828.0 2883.0 2928.0 2969.0 3004.0	2.1385 2.0571 1.9867 1.9250 1.8706	7.9976 8.3117 8.5732 8.8150 9.0240

Page 2

CELSIUS ENERGY COMPANY

DST#: 1 UCOLA #3 6320-6365

Location: NE-SW-10-36S-26E Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 24521

Recorder Depth: 6301 ft.

### TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURI PSI	E (T+dt)/dt ABSCISSA	PRESSURE SQUARED
		180.0	2844.0	3034.0	1.8222	PSI^2/10^6
		190.0	2871.0	3061.0	1.7789	9.2052 9.3697
		200.0	2897.0	3087.0	1.7400	9.5296
		210.0	2918.0	3108.0	1.7048	9.6597
		220.0	2939.0	3129.0	1.6727×	9,7906
		230.0	2958.0	3148.0	1.6435*	9.9099
G END	OF 2nd SHUTIN	240.0	2974.0	3164.0	1.6167*	10.0109
K FINA	L HYDROSTATIC	0.0		4011.0		

<sup>\*</sup> VALUES USED FOR EXTRAPOLATIONS

Page 3

CELCIUS ENERGY DST#: 1

UCOLA #3 6320-6365

Location: NE-SW-10-36S-26E

Test Type: BOTTOM HOLE CONVENTIONAL Formation: DESERT CREEK

Recorder Number: 1622

Recorder Depth: 6365 ft.

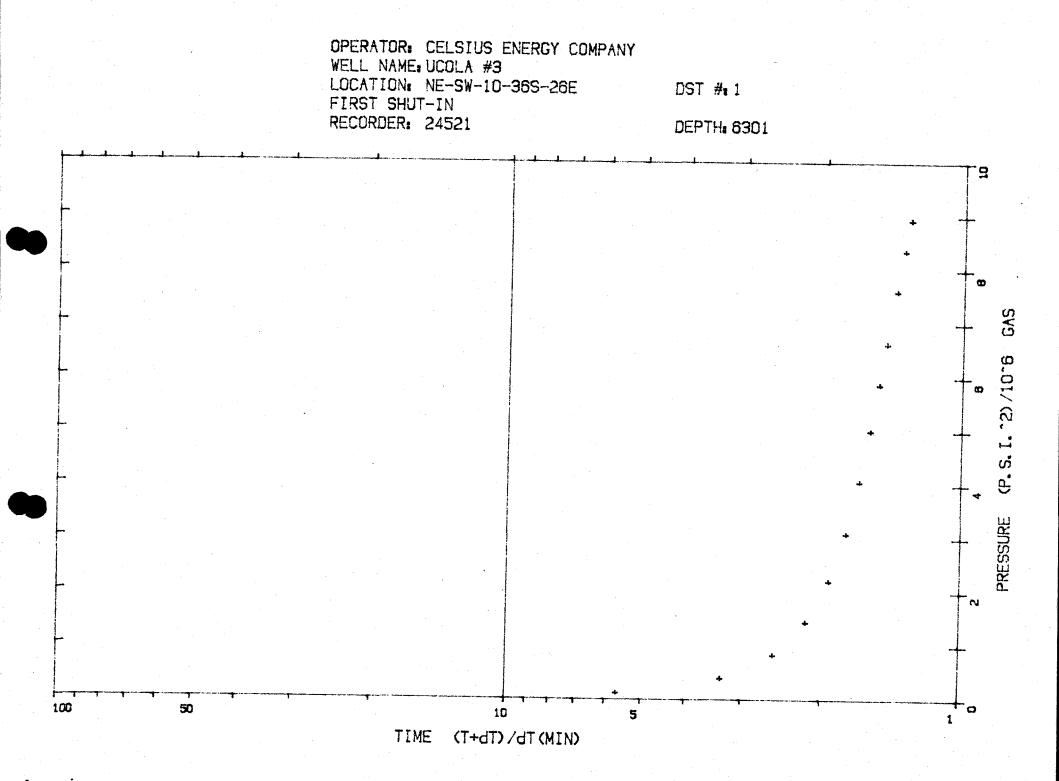
2nd SHUT-IN

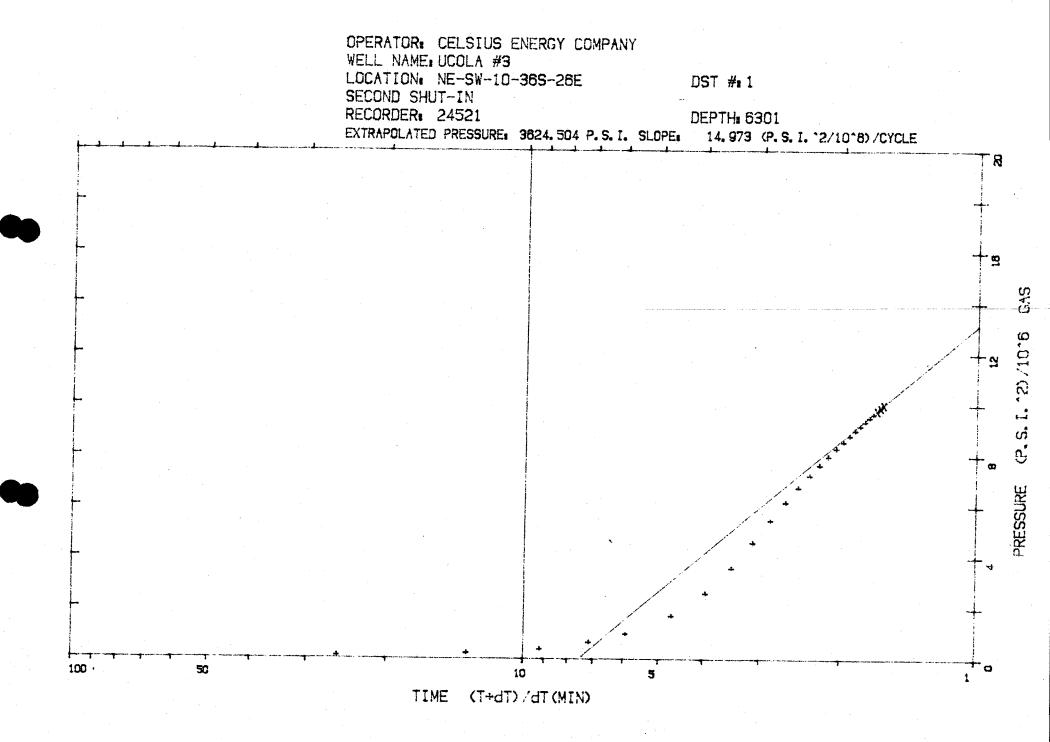
HORNER EXTRAPOLATION

3659.57 PSI

HORNER SLOPE

2373.80 PSI/cycle





### LYNES, INC.

### Gas Volume Report

Celsius Energy Company Operator				Ucola #3 Well Name and No.	DST No.	
<sub>T</sub>			*			
Min.	PSIG	Orifice Size	MCF/D	Comments		
45	4	1/4"	28.0	Gas to surface,		
60	1	1/4"	12.5	#h ma		
					v <del></del>	
					***************************************	
					<u> </u>	
					··········	

### LYNES, INC.

### Sampler Report

ompanyCe	elsius Energy Company	Date	4/25/83	
ell Name & NoU	cola #3	Ticket No	04151	
untySa	nn Juan	State	Utah	
st Interval 63	320-6365 Ft.	DST No		
	: 2150			
	1400			
	30			
	5			
	1000			
	395 gas cut			
	.09			
	Sample R.W.:			
	Resistivit		ppiii. CT.	
Make Up Water	@ <u></u>	Collegia. O.		
Mud Pit Sample	@ 68 <sup>0</sup> F	Sollaity Content	0100	ppm.
	Gravity			
Where was sample drained				°F
Remarks: Recov	very:			
	Top Sample R.W.:	2 0 650 - 35 00	07	
	Middle Sample R.W.:			
	Bottom Sample R.W.:	.US U 63"F =105,00	u ppm. cl.	·
				· · · · · · · · · · · · · · · · · · ·
				***

SIUS ENERGY COMPANY

DST#: 1 UCOLA #3 6320-6365

PRESSURE RECORDER NUMBER : 1622

DEPTH : 6365.00ft.

LOCATION : OUTSIDE

TYPE : DMR

CAPACITY : 5000.00 PSI

PRESSURE

PSI

A)Initial Hydro: 4187.0 B)1st Flow Start: 97.0

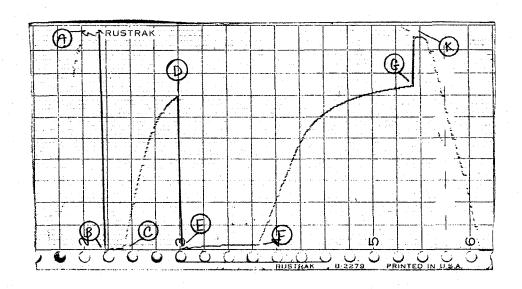
C)1st Flow End : 126.0

D)END 1st Shutin: 2990.0

E)2nd Flow Start: 91.0

F)2nd Flow End: 190.0 G)END 2nd Shutin: 3163.0

K)Final Hydro. : 4137.0



TEST TIMES (MIN)

1st FLOW : 28

SHUTIN: 90

2nd FLOW :120

SHUTIN:240

TEMPERATURE RECORDER NUMBER: 1622

DEPTH : 6365.00 ft.

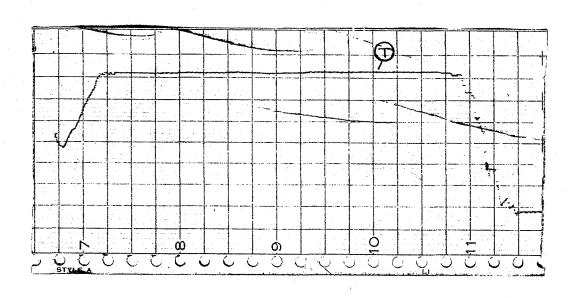
LOCATION : OUTSIDE

TYPE : DMR

CAPACITY : 5000.00 PSI

**TEMPERATURE** 

137.3<sup>0</sup>F



### LYNES, INC.

### Distribution of Final Reports

Celsius Ene	rgy Company Ucola #3 Operator Well Name and No.
Original &	
1 сору	Celsius Energy Company / Wexpro, POB 11070, Salt Lake City, UT 84147
	Attn: Roger W. Fallen
2 copies	Celsius Energy Company, POB 458, Rock Springs WY 82901
	Attn: Petroleum Engineer
2 copies	Celsius Energy Company, POB 2329, Farmington, NM 87499
	Attn: N. Thomaidis
1 сору	Kenai Oil & Gas Inc. l Barclay Plaza #500, 1675 Larimer Street,
	Denver, CO 80202 Attn: Joseph R. Mazzola
2 copies	Utah Oil Gas & Mining, 1588 West North Temple, Salt Lake City, UT
	84116
*	

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

CELSIUS ENERGY COMPANY

UCOLO NO. 3 WELL
UCOLO FIELD
SAN JUAN COUNTY, UTAH



DIVISION OF OIL, GAS & MINING

: 3803-3260

### CORE LABORATORIES, INC. Petroleum Reservoir Engineering DALLAS, TEXAS

CELSIUS ENERGY COMPANY UCOLO NO. 3 WELL UCOLO FIELD SAN JUAN COUNTY, UTAH

OFF: 23-MAY-83 FILE NO DATE ON : 25-APR-83 FORMATION : DESERT CREEK LABORATORY: FARMINGTON

DRLG. FLUID: WATER BASE MUD ANALYSTS GG:DS : NE SW SEC. 30-T36S-R26E **ELEVATION: 6646 KB** LOCATION

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEFTH FEET	PERM MD MAX Ka	FERM MD 90DEG Ka	He POR	OIL% WTR%	GRAIN DEN	DESCRIPTION
	6305.0-15.0						SHL/LM - NO ANALYSIS
	6315.0-21.0		*				ANHYDRITE - NO ANALYSIS
1.	6321.0-22.0	* 0.16	**	3.0	2.6 71.9	2.78	DOL BRN VF XLN
2	6322.0-23.0	0.62	0.60	7.5	2.5 73.9	2.83	DOL BRN VF XLN VUG
. 3	6323.0-24.0	7.8	6.7	7.6	1.3 25.3	2.81	DOL BRN VF XLN VUG
4	6324.0-25.0	3.6	3.4	7.0	2.1 33.6	2.84	DOL BRN VF XLN VUG
5	6325.0-26.0	8+8	8.3	8.4	4.5 37.5	2.84	DOL BRN VF XLN VUG
6	6326.0-27.0	6.7	2.2	10.2	2.5 50.9	2.83	DOL BRN VF XLN VUG
7	6327.0-28.0	21.	**	9.6	2.3 27.6	2.84	DOL BRN VF XLN VUG
8	6328.0-29.0	3+2	2.7	9.0	2.7 43.5	2.85	DOL BRN VF XLN VUG
9	6329.0-30.0	1.3	0.96	7.8	1.8 29.6	2.85	DOL BRN VF XLN VUG
1.0	6330.0-31.0	0.73	0.69	6 - 1	0.6 28.0	2.86	DOL BRN VF XLN SL/ANHY
1.1	6331.0-32.0	0.62	0.62	3.9	0.0 52.4	2.87	DOL BRN VF XLN SL/ANHY
12	6332.0-33.0	0.28	0.27	2.5	0.0 47.0	2.85	DOL BRN VF XLN
13	6333.0-34.0	<0.01	**	0.8	0.0 62.9	2.78	DOL BRN VF XLN
1.4	6334.0-35.0	<0.01	**	1.0	0.0 69.2	2.76	DOL DK BRN VF XLN SL/SHL
15	6335.0-36.0	<0.01	**	0.9	4.9 78.1	2.76	DOL DK BRN VF XLN SL/SHL
	6337.0-56.0	2 W W W	4	<b>3 7</b> 7	147 7011	A. 7 / W	SHL/LM - NO ANALYSIS
	6356.0-64.0						SHALE - NO ANALYSIS
	6364.0-66.0						DOL/LM - NO ANALYSIS

FRACTURED PERMEABILITY PLUG

UNSUITABLE FOR FULL DIAMETER ANALYSIS, PLUG USED.

### CORE LABORATORIES, INC. Petroleum Reservoir Engineering DALLAS, TEXAS

CELSIUS ENERGY COMPANY UCOLO NO. 3 WELL

DATE

25-APR-83

FILE NO.

: 3803-3260

55. 9.6

42.2

FORMATION

DESERT CREEK

ANALYSTS

: GG:DS

\*\*\* CORE SUMMARY AVERAGES FOR 1 ZONE \*\*\*

DEPTH INTERVAL:

6321.0 TO 6337.0

FEET OF CORE ANALYZED:

15.0

FEET OF CORE INCLUDED IN AVERAGES:

15.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORZONTAL RANGE (MD.)

0.00 TO

(UNCORRECTED FOR SLIPPAGE

HELIUM POROSITY RANGE (%)

0.7 TO

100.0 5.0

OIL SATURATION RANGE (%) WATER SATURATION RANGE (%)

ALLED ACE DECIMENTATE TOVE AMELIT TO A COTTON

(PERCENT OF PORE SPACE)

TO TO

80.0

22.

SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGES FOR DEPTH INTERVAL:

6321.0 TO 6337.0

AACKAGE LEKWEARIFIT (WIFFINAKOIE2)			EKONOCITAE CALACITA (WITTINGKOA.
ARITHMETIC PERMEABILITY	:	3.7	ARITHMETIC CAPACITY
GEOMETRIC PERMEABILITY	:	0.64	GEOMETRIC CAPACITY
HARMONIC PERMEABILITY	:	0.04	HARMONIC CAPACITY
AVERAGE POROSITY (PERCENT)	. 1	5.7	AVERAGE TOTAL WATER SATURATION (PERCENT OF PORE SPACE)
AUFRAGE RESTRUAL OTESATURATION	•	7) 1	

# CORE LABORATORIES, INC. Petroleum Reservoir Engineering DALLAS, TEXAS

#### PERMEABILITY VS FOROSITY

COMPANY: CELSIUS ENERGY COMPANY

WELL : UCOLO NO. 3 WELL

FIELD : UCOLO FIELD

COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY: MD - HORIZONTAL ( UNCORRECTED FOR SLIPPAGE )

POROSITY : PERCENT ( HELIUM )

DEPTH INTERVAL	RANGE &	PERMEABILITY MINIMUM MAXIMUM	POROSITY MIN. MAX.	FOROSITY AVERAGE	PERMEARI ARITHMETIC	LITY AVERAGES HARMONIC_GEOMETRIC
***************************************	mu and and the med alth and		***************************************		*** *** *** *** *** *** *** ***	
6321.0 - 6337.0	1 (+)	0.000 22.0	0.7 10.3	5.7	3.7	0.04 0.64

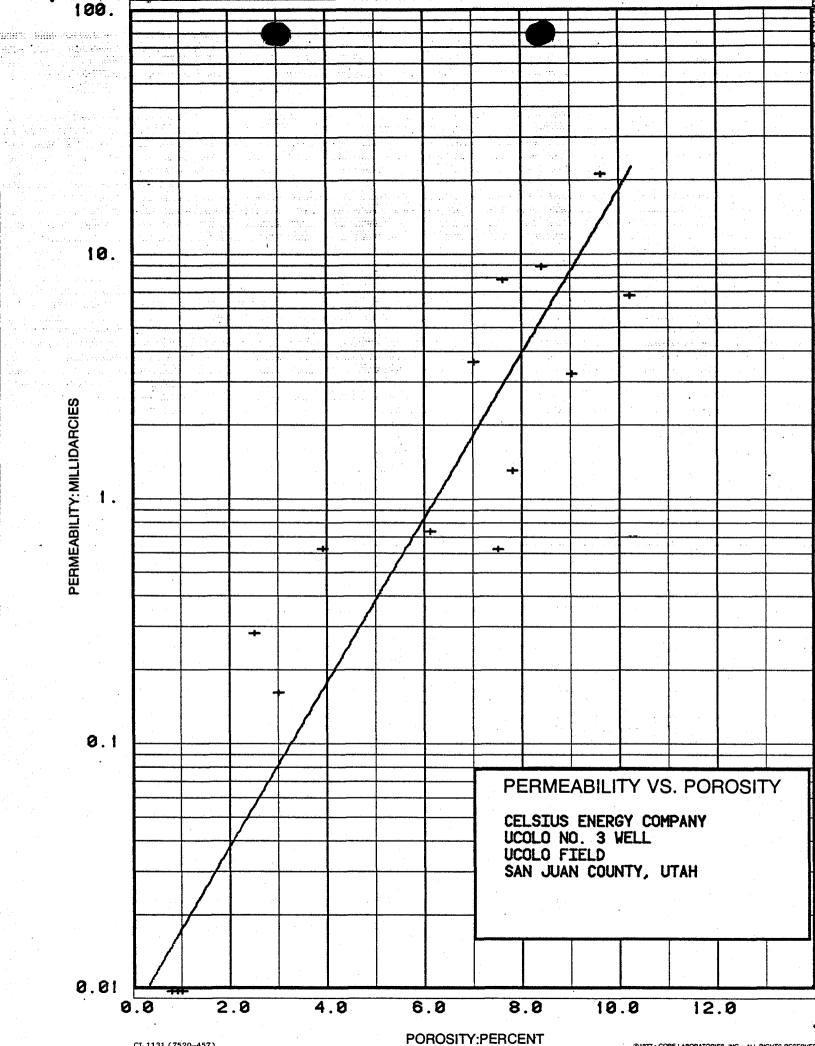
EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY:

LOG(K) = (SLOPE)(POROSITY) + LOG OF INTERCEPT

K = ANTILOG((SLOPE)(POROSITY) + LOG OF INTERCEPT)

RANGE EQUATION OF THE LINE

PERM = ANTILOG(( 0.3365)(POROSITY) + -2.1057)



STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY

WELL : UCOLO NO. 3 WELL

FIELD : UCOLO FIELD

COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD.

HORIZONTAL

RANGE USED

0.000 TO 22.

POROSITY

: PERCENT

HELIUM

RANGE USED

0.7 TD 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEFTH LIMITS

6321.0 - 6337.0

INTERVAL LENGTH :

16.0

FEET ANALYZED IN ZONE

15.0

LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE PERMEABILITY AVERAGES
ARITHMETIC HARMONIC GEOMETRIC

5.7

3.7

0.04

0.64

#### STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY

WELL : UCOLO NO. 3 WELL

FIELD : UCOLO FIELD

COUNTY, STATE: SAN JUAN COUNTY, UTAH

#### GROUPING BY POROSITY RANGES

POROSITY RANGE	FEET IN RANGE	AVERAGE POROSITY			FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
MI IN 600 AN OO OO ON 511 AN OA						
0.0 - 2.0	3.0	0.9	0.009	0.009	20.0	20.0
2.0 - 4.0	3.0	3.1	0.303	0.353	20.0	40.0
6.0 - 8.0	5.0	7.2	1.8	2.8	33.3	73.3
8.0 - 10.0	3.0	9.0	8 • 4	11.	20.0	93.3
10.0 - 12.0	1.0	10.2	6.7	6.7	6.7	100.0

TOTAL NUMBER OF FEET = 15.0

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

### STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM.

COMPANY: CELSIUS ENERGY COMPANY

WELL

: UCOLO NO. 3 WELL

FIELD : UCOLO FIELD

COUNTY, STATE: SAN JUAN COUNTY, UTAH

#### GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	FEET IN RANGE	AVERAGE (GEOM.)	PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	3.0	0.009	0.009	0.9	20.0	20.0
0.156 - 0.312	2.0	0.212	0.220	2.8	13.3	33.3
0.312 - 0.625	2.0	0.620	0.620	5.7	13.3	46.7
0.625 - 1.250	1.0	0.730	0.730	6.1	6.7	53.3
1.250 - 2.500	1.0	1.3	1.3	7.8	6.7	60.0
2.500 - 5.000	2.0	3.4	3.4	8.0	13.3	73.3
5 10.	3.0	フ・フ	7.8	8.7	20.0	93.3
20 40.	1.0	21.	21.	9.6	6.7	100.0

TOTAL NUMBER OF FEET = 15.0

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

### STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY

WELL : UCOLO NO. 3 WELL

FIELD : UCOLO FIELD

COUNTY, STATE: SAN JUAN COUNTY, UTAH

### POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

POROSITY	FEET	CAPACITY	FEET	CAPACITY	ARITH	
CUT OFF	LOST	LOST (%)	REMAINING	REMAINING	(%) MEAN	MEDIAN
4014 ctrs 4110 800 500 000 000 000	**************					
0.0	0.0	0.0	15.0	100.0	5.7	6 • 6
2.0	3.0	3.2	12.0	96.8	6.9	7.2
4.0	6.0	14.2	9.0	85.8	8.1	
გ.0	6.0	14.2	9.0	85.8	8.1	
8.0	11.0	56.4	4.0	43.6	9.3	
10.0	14.0	88.0	1.0	12.0	10.2	
12.0	15.0	100.0	0.0	0.0	**	

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 85.3

.

### CORE LABORATORIES, INC. Petroleum Reservoir Engineering DALLAS, TEXAS

### STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY

WELL

: UCOLO NO. 3 WELL

: UCOLO FIELD

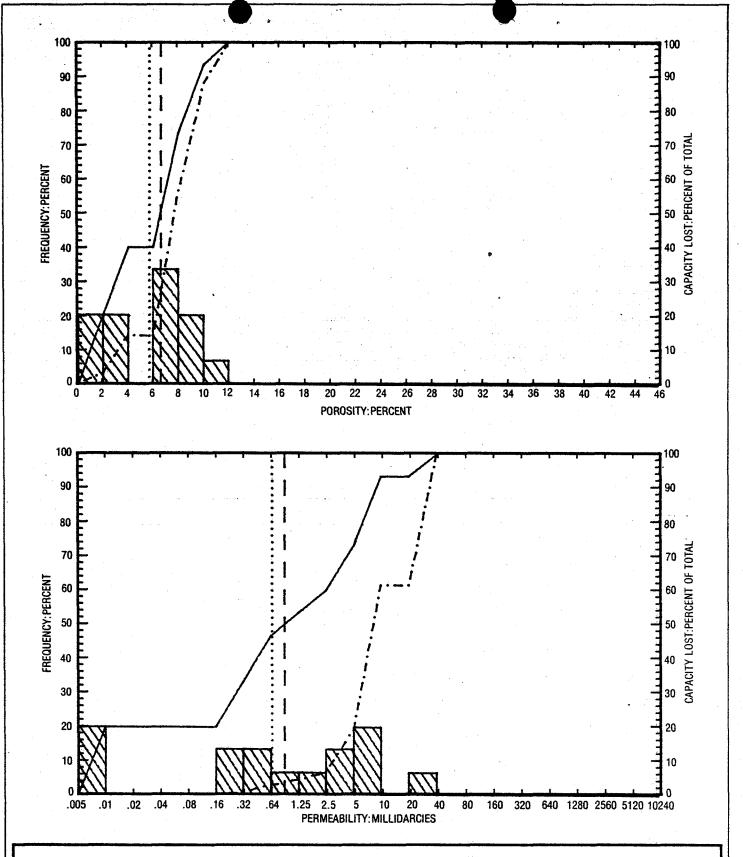
COUNTY, STATE: SAN JUAN COUNTY, UTAH

### MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

PERMEABILITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY .REMAINING	(%)	GEOM MEAN	MEDIAN
the time was done had arise well user pass and care were	Det						*** *** *** *** *** ***
0.005	0.0	0.0	15.0	100.0		0.64	0.88
0.010	3.0	0.0	12.0	100.0		1.87	2.50
0.020	3.0	0.0	12.0	100.0		1.87	2.50
0.039	3.0	0.0	12.0	100.0		1.87	2.50
0.078	3.0	0.0	12.0	100.0		1.87	2.50
0.156	3.0	0.0	12.0	100.0		1.87	2.50
0.312	5.0	0.9	10.0	99.1		2.89	3.54
0.625	7.0	3.1	8.0	96.9		4.25	5.00
1.250	8.0	4.4	7.0	95.6		5.46	5.61
2.500	9.0	6 + 8	6.0	93.2		6.94	6.30
5.	11.0	19.2	4.0	80.8	•	9.91	
10.	14.0	61.7	1.0	38.3		21.00	
20.	14.0	61.7	1.0	38.3		21.00	
40.	15.0	100.0	0.0	0.0			

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET(ARITHMETIC) == 54.84

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.



### PERMEABILITY AND POROSITY HISTOGRAMS

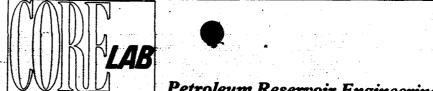
CELSIUS ENERGY COMPANY UCOLO NO. 3 WELL UCOLO FIELD SAN JUAN COUNTY, UTAH

#### LEGEND

ARITHMETIC MEAN POROSITY GEOMETRIC MEAN PERMEABILITY MEDIAN VALUE CUMULATIVE FREQUENCY CUMULATIVE CAPACITY LOST

•••••

# CORE LABORATORIES, INC.



OMPANY	CELST	IS ENER	GY COMP	ANY				_FILE NO.3803-3	200
		NO. 3			DATE	25-APF	2_83	_FILE NO. <u>96693</u> _ENGRS <u>_GG : DS</u>	208
IELD	UCOL O					ONDESERT		ELEV. 8848 K	'B
OUNTY	SAN J	IAN	<del></del>	_STATE UTA	HDRLG. FL			CORES	-
•			C	ORE and	CoRes	LO.	<b>G</b>		
**									
RES	ISTIVIT	Y PARAN		a = 1.00	s are based on observations and materials is no copinions engineering represent the base is or opinions engineering represent and employees, assume no responsibility or other mineral well or send in connection $m=2.88$	n = <u>2.</u> 0	. Depth	s 6321.0 to 6	337.8
Mi	MEABII LLIDARCIE	is ,	0.1	DEPTH FEET	m =	C Ro	ORE ANALYSIS = OHM-METERS AT 16	CALCULATED RE  OO% Sw  CRITICAL Sw	SISTIVITY
				6300		<del></del>	<b>←</b> ONE OHM-METE	R REFERENCE FOR	R <sub>w</sub> =0.01
							en e	e Vanadorio de Caralle (Caralle)	
					and the second of the second		The process of the process of	e de la compansión de la c	
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### **CORE LABORATORIES, INC.**

Petroleum Reservoir Engineering

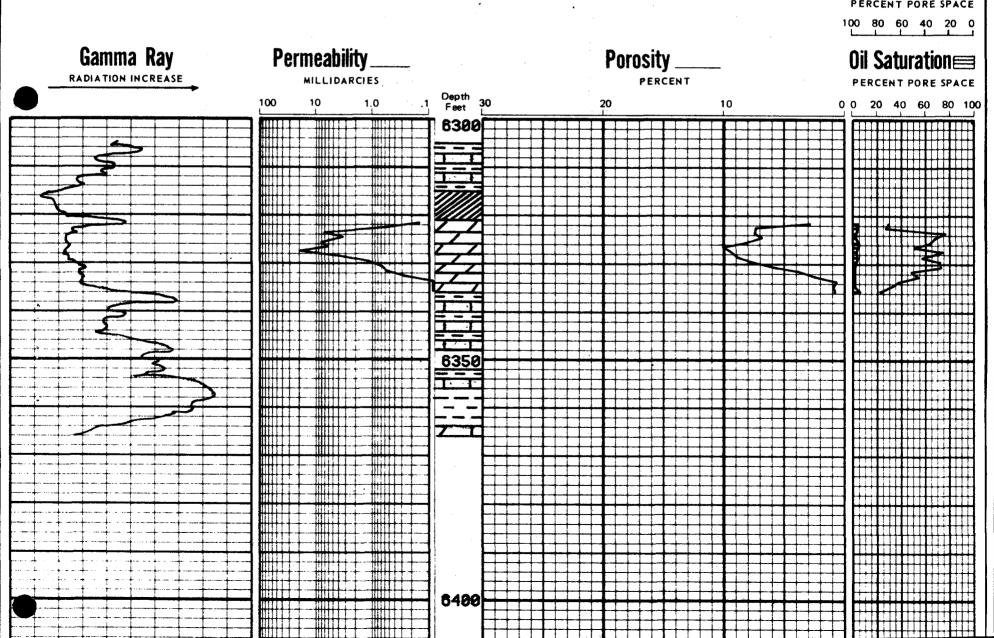
COMPANY	CELSIUS ENERGY	COMPANY			_ FILE NO	3803-3260
WELL	UCOLO NO. 3				_ DATE	25-APR-83
FIELD	UCOLO		FORMATION DESER	T CREEK	_ ELEV.	6646 KB
COUNTY	SAN JUAN	STATE UTAH	DRLG. FLD. WATER	BASE MUD	_ CORES_	
LOCATION	NE SW SEC. 30-	T365-R26E				

### CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, inc., (all errors or omissions excepted); but Core Laboratories, inc., and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100"

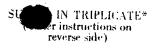




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	DIVISI	ON OF OIL, GAS,	AND	MINING		5. LEASE DESIGNATION	AND BERIAL NO.
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3	Celsius Energy Company					Ucolo	
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			٠.			10-36S-26E, S	SLB&M
14.	PERMIT NO.	15. BLEVATIONS (Show	whethe	er DF, RT, GR, etc.)		12. COUNTY OR PARISH	
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16.	Check Ap	propriate Box To Ir	dicat	e Nature of Notice, Report,	or O	ther Data	
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		ULTIPLE COMPLETE	_	WATER SHUT-OFF FRACTURE TREATMENT	-	REPAIRING V	
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	REPAIR WELL C	HANGE PLANS		(Other) _Supplem			X
	(Other)			(NOTE: Report re	sults o	of multiple completion tion Report and Log for	on Well
	May 1, 1983 rigged up w Landed 2-7/8" OD, 6.5#, Perforated 6320-6324' w	J-55, 8 rd th			' KB	М.	
	Acidized with 2000 gall has 800 SCF N <sub>2</sub> per barr	ons 15% HCL ac el, average ra	id, te 3	displaced with 38 bar .1 BPM, pressure 2950	rels psi	water, all fl	uid
	•			·			
					W	ECEIVE	
						JUN 7 1983 OF OIL, BAS & MI	NING
8.	I hereby certify that the foregoing is	1	· · · · · ·		MIT.	OI VIEW WIND WIN	
	SIGNED L. J. Mases		CLE _	Orilling Superintende	nt	DATE June	1, 1983
	(This space for Federal or State office	e use)					
	APPROVED BY	TI	TLE _			DATE	

# DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

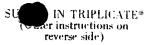


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DIVISION OF OIL, GAS, AND MINING				5. LEASE DESIGNATION AND SERIAL NO		
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Celsius Energy Co	mpany		.	Ucolo		
ADDRESS OF OPERATOR			9.	WELL NO.		
P. O. Box 458, Ro	ck Springs, WY 82902	2		3		
See also space 17 below.) At surface	tion clearly and in accordance wit	h any State requirements.*	i	FIELD AND POOL, (	OR WILDCAT	
				Wildcat		
NE SW, 2100' FSL,	2080° ғwт.		11.	SEC., T., R., M., OR SURVEY OR ASS.	BLK. AND	
,				10-36S-26E,	ST.B&M	
. PERMIT NO.	15. SLEVATIONS (Show whether	ther DF, RT, GR, etc.)		COUNTY OR PARISE		
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NOTICE OF	OT MOITMENT	1	THEUPEREUR	REPORT OF:		
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF		REPAIRING	WELL	
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SHOOT OR ACIDIZE	ABANDON*	SHOUTING OR ACIDIZ	لبسمسا	ABANUON M E	NT*	
REPAIR WELL	CHANGE PLANS	(Other) Suppl			x	
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DIV. OF OIL, BAS	<b>A MIN</b> ING					
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I hereby certify that the forego	ng is twis and correct					
1) 1 may	0.1				- 9	
SIGNED	TITLE	Drilling Superinten	dent	DATE <u>lune</u>	20, 1983	
(This space for Federal or State	e office use)					
ADDROUGHD BY	<b></b> -					
CONTINUE NS OF APPROVAL.	IF ANY:			DATE		

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

# DEPARTMENT OF NATURAL RESOURCES



Di	EPARTMENT OF NATURA		<del>-</del>		
	DIVISION OF OIL, GAS,	AND MINIS	NG .	5. LEASE DESIGNATION Fee	ON AND BERIAL NO.
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1.				7. UNIT AGREEMENT	NAME
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2. NAME OF OPERATOR			<del></del>	8. FARM OR LEASE N	AMB
Celsius Energy Co	mpany			Uco1o	
3. ADDRESS OF OPERATOR				9. WELL NO.	<del>- :</del>
	ock Springs, WY 8290			3	
OCC GVOO BASTE I' DEIDM'I	ocation clearly and in accordance	with any Sta	te requirements.*	10. FIELD AND POOL,	OR WILDCAT
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				SURVEY OR AR	<b>4</b>
				10-36S-26E,	SLB&M
14. PERMIT NO.	15. ELEVATIONS (Show			12. COUNTY OR PARIS	H 18. STATE
API: 43-037-30875	GR 6633'	KB 6647	.20'	San Juan	Utah
<sup>16.</sup> Ch	eck Appropriate Box To In-	dicate Nati	us of Notice Report of	. Other Deta	
	OF INTENTION TO:	1		SEQUENT REPORT OF:	
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SHOOT OR ACIDIZE	MULTIPLE COMPLETE	-	FRACTURE TREATMENT	ALTERING	
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	:		<u> </u>	DIVISION OF GAS & MINIA	
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8. I hereby certify that the for	m				
SIGNED	Maser TIT	LE Drill	ing Superintenden	t DATE July	27, 1983
(This space for Federal or S	itate office use)				

DATE .

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

m OGCC-1 b∙ \$ T A	TE OF UTAH	SUBMIT IN TRIPLICATE.		
OIL & GAS CONS	ERVATION COMMISSIO	(Other instructions on reverse side)	5. LEASE DESIGNATION	AND SERIAL NO.
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2. NAME OF OPERATOR			8. FARM OR LEASE NAM	1
Celsius Energy Company			Ucolo	
8. ADDRESS OF OPERATOR			9. WELL NO.	
P. O. Box 458, Rock Sprin	gs, WY 82902		2	
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14. PERMIT NO.	15. BLEVATIONS (Show whether DF, R		10-36S-26E.	SLB&M
API: 43-037-30875	GR 6633', KB 66		San Juan	18. state Utah
16. Check Ap	propriate Box To Indicate Na	ture of Notice, Report, or O	ther Data	
NOTICE OF INTEN	TION TO:	SUBSEQU	ENT REPORT OF:	
· · · · · · · · · · · · · · · · · · ·	PULL OR ALTER CASING MULTIPLE COMPLETE	WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING W	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well is shut-in waiting on orders.

ABANDON\*

CHANGE PLANS

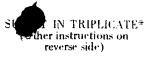
DIVISION CP OIL. GAS & MERDING

SHOOTING OR ACIDIZING

(Other) Supplemental History

SIGNED . Masky	TITLE Drilling Superintendent	DATE 8-15-83
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

APPROVED BY CONDIII. MS OF APPROVAL, IF ANY:



•	STATE OF		, Pra	instructions on everse side)		•
	DEPARTMENT OF NAT					
	DIVISION OF OIL, G	AS, AND WINI	NG	1 _	DESIGNATION AND SE	ERIAL NO.
				Fee	IAN. ALLOTTES OR TE	190 V.V.
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WELL XX WELL	OTHER	المسعدة أرجع المنافعة		·		
2. NAME OF OPERATOR			to 0 0 199 )	8. FARM (	OR LEASE NAME	
Celsius Energy Con	mpany	<u> </u>		Uco1	.0	
		nı	VISION OF	9. WELL	10.	
P. O. Box 458, Ro	ck Springs, WY 829 to location clearly and in accor			3		
See also space 17 below.) At surface	r location clearly and in accor	dance with sub 30	ale requirements.	•	AND POOL, OR WILD	CAT
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NE 5W, 2100 15E,	2000 FWL			11. 88C.,	T., R., M., OR BLK. AN VBT OR AREA	<b>D</b>
				10-3	86S-26E, SLB8	νM
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API: 43-037-3087	5 GR 6633',	, KB 6647.2	.O'	San	Juan Uta	ah
16.	Charle Annuages Paul 3	To Indiana No.	(N 5	0. 0.		
	Check Appropriate Box 1	o indicate Nat		_		
noric	OF INTENTION TO:		8	UBSEQUENT REPORT	OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CAST	ING	WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE	ABANDON*	-	SHOUTING OR ACIDIZIN	<u> </u>	ABANDONMENT*	
(Other)	CHANGE PLANS	<del>  </del>	(Other)Supple (Note: Report)	emental Historial results of multiple	completion on Wel	XX
	PLETED OPERATIONS (Clearly st	ate all pertinent d	Completion or R	completion Report	completion on Well and Log form.)	
proposed work. If well nent to this work.) *	PLETED OPERATIONS (Clearly at is directionally drilled, give	subsurface location	s and measured and true	vertical depths for	all markers and ze	erting any ones perti-
Well is shut-in,	waiting on orders.					
	a					
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					2	
18. I hereby certify that the i	foregoing is true and correct			<del></del>		
signed	3. Maser	TITLE Dril	ling Superintend	lent	Sept. 1,	1983
				DAT:	g	
	r State office use)					

DATE

September 13, 1983

Celsius Energy Company P. O. Box 458 Rock Springs, Wyoming 82903

> RE: Celsius Energy Company Ucolo No. 3 Well NE/4 SW/4 Sec. 10, T.36S, R.26E San Juan County, Utah

#### Gentlemen:

Sundry Notices and Reports on Wells, Form OGC-16, dated June 1, 1983 submitted for the referenced well indicated that the well was perforated and stimulated on about May 1, 1983. Subsequent reports of Supplemental HIstory filed with this Division indicate that the well is shut-in, waiting on orders.

In order to finalize our records, we request that you file the Well Completion or Recompletion Report and Log Form OGC-3, to accurately reflect the present status of this well. The Completion report should also be accompanied by a sundry notice advising of any subsequent work performed on the well.

Your early attention to this matter will be appreciated.

Sincerely,

Chief Petroleum Engineer

RJF/as

16.

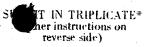
TEST WATER SHUT-OFF

PRACTURE TREAT

SHOOT OR ACIDIZE

RÉPAIR WELL

(Other)



SUBSEQUENT REPORT OF:

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION AND SERIAL NO. Fee
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservo:  Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTER OR TRIBE NAME
OIL GAS OTHER	7. UNIT AGREEMENT NAME
. NAME OF OPERATOR	8. FARM OR LEASE NAME
Celsius Energy Company	Ucolo
ADDRESS OF OPERATOR	9. WELL NO.
P. O. Box 458, Rock Springs, WY 82902	3
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*  See also space 17 below.)  At surface	19. FIELD AND POOL, OR WILDCAT Wildcat
NE SW, 2100' FSL, 2080' FWL	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
	10-36S-26E, SLB&M
4. PERMIT NO. API: 43-037-30875    15. Blevations (Show whether DF, RT, GR, etc.)   GR 6633', KB 6647.20'	San Juan Utah

PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL MULTIPLE COMPLETE FRACTURE TREATMENT ALTERING CASING ABANDON\* SHOOTING OR ACIDIZING

(Other) Supplemental

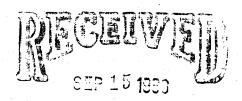
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

Well is shut-in, waiting on orders.

NOTICE OF INTENTION TO:

CHANGE PLANS



DIVISION OF OIL, GAS & MINING

8. I hereby certify that the foregoing is true and correct SIGNED	TITLE	Drilling Superintendent	DATE Sept. 12,	1983
(This space for Federal or State office use)				
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE		DATE	

1 ile

Utah Division of Natural Resources Dept. of Oil, Gas and Mining 4241 State Office Building Salt Lake City, Utah 84114

Re: Celsius Energy Co.--yeola No. 3

Gentlemen:

On behalf of my mother, Adra Baird, who has granted me her Power of Attorney, we respectfully request you waive the dry hole marker requirement on the Ucola No. 3 well. This well is situated in Sec. 10, T 36 S, R 26 E in San Juan County and operated by Celsius Energy Co.

We request the pipe be cut off well below plow line as it is in an open field.

Thank you for your consideration.

Sincerely.

Robert Baird

Box 235

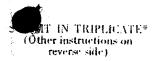
Dove Creek, Co. 81324

cc Jennifer Head Wexpro Co.



DIVISION OF OH, GAS & MINING

### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES



	DIVISION OF OIL, GAS, AND N	MINING	5. LEASE DESIGNATION AND SERIAL NO
			Fee
SUNDR	Y NOTICES AND REPORTS  of proposals to drill or to deepen or plus  "APPLICATION FOR PERMIT—" for such	ON WELLS	6. IF INDIAN, ALLOTTER OR TRIBE NAM
1.		proposition	
OIL WELL WELL	OTHE		7. UNIT AGREEMENT NAME
Celsius Energy C	omnany		8. FARM OR LEASE NAME
ADDRESS OF OPERATOR	ompany		Ucolo
P. O. Box 458, R	ock Springs, Wyoming 82902		9. WELL NO.
	t location clearly and in accordance with ac		10. FIELD AND POOL, OR WIEDCAT
	•		Wildcat
NE SW, 2100' FSL	, 2080' FWL		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
. PERMIT NO.			10-36S-26E, SLB&M
API: 43-037-308	75   15. SLEVATIONS (Show whether GR 6633 KB 664	7.20 t	12. COUNTY OR PARIABLE 18. STATE  San Juan Utah
	Check Appropriate Box To Indicate	Nature of Notice, Report, or	Other Data
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TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOUTING OR ACIDIZING	XX THEMHOUNABA
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Nors: Report result	s of multiple completion on Well eletion Report and Log form.)
Plug No. 1: Plug No. 2: Plug No. 3: Removed tubing spoff 6" below plow	ement down the $5\frac{1}{2}$ " X 9-5/8 30 sacks from 6330' to 61 30 sacks from 3000' to 28 10 sacks from 100' to sure ool. The casing flange, a level and a plate will be thed as soon as weather constant.	" casing annulus, set 00' KBM 00' KBM face in 5½" casing. 9-5/8" casing and 5½" welded over the casin	plugs as follows:
er der gegeben in der der eine er eine General er eine er ein	and a great plant of the College of		
	APPROVED BY THE STATE	MEGE JAN 1	1 1984 9 1984
	OF UTAH DIVISION OF, OIL GAS, AND MINING A	_1	
	ATE	DIVISION OHL, GAS	T-1-1-1, T-1-1-1
6	2/100	7V 0.2, and	w intelliged
I hereby tertify that the	regoing is true and correct		
SIGNED TOUT		aff Engineer	
(This space for Federal or	State office use)		
APPROVED BY	TITLE		DATE

OPERATOR: CELSIUS

VUCOLO #3 WELL:

LOCATION: NE SW 10 - 365, 76E SAN JUAN

Evaluation

Geology

	Significant	Well	Hole	Casing	Mud
	Formations	Depth	Size	& Cement	Program
			+ MAGNER		1
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BE PULLED.	ENTRADA - 1117	•			
	CARMEL - 1270'			CMT TO SFO	-
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ONLY IN DESERT				e # j	
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I BBL OIL.			/,		
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OF 52" CASING	CHINLE - 2028'	<b>\</b>		ENT TO 480	9
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BACK TO 4800.					
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	HONWAKER T4615		1		
	PARAJOX -5399'				
	DESERT CHEEK - APPAOR	6300	//		
	202301				
Company Contact:	Tom COLSON				
Telephone: (307	7 382-979/		200'	<b>7</b> – –	
			ACROSS IL	328 PERFS	
Dato			PERF		
Date: 11-16-8					
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SUBMIT IN DUPL (See other instructions on reverse side)
on reverse side)

	ST EPARTMENT DIVISION OF	OF NA		RESOU		(Se	e oth	N DUPL er instruct verse side		Fee		56 64 0
and the second s	MPLETION	V OR	RECO	MPLET	ION	REPORT	AN	D LO	G*	6. IF INDIAL	N, ALLC	OTTEE OR TRIBE NA
a. TYPE OF WE	W	ELL	GAS WELL	α	RY XX	Other				7. UNIT AGE	EEMEN	T NAME
NEW WELL X	WORK [ ] D	EEP-	PLUG BACK	DIF	e m	NE P	15	777	F	S FARM OR	LEASE	NAME
. NAME OF OPERA		<u> </u>	BACK	L RES	V R		5	3 W	<del>  </del>	Ucolo		
	Energy Com	pany			Λ	المتعقال				8 WELL NO	<u>.</u>	<u> </u>
. ADDRESS OF OPE		1. 0		TT7 00		FEE	} (	6 <b>1</b> 984		3		
P. U. BOX	458, Roc				902			•				L, OR WILDCAT
At surface	NE SW, 21							N OF		11. SEC., T.,	B., M.,	OR BLOCK AND SURV
At top prod. in	terval reported	_				OHL, GA				OR AREA		
At total danth						UIL, UA	10 (	X 141114	::10	10-36	S-26	E, SLB&M
At total depth				1 14 PE	RMIT NO		DATE	ISSUED		12. COUNTY	OB	13. STATE
<u>.</u>						37-3087 <b>5</b>	DAIE	ISSUED		PARISH San J		Utah
DATE SPUDDED	16. DATE T.D.	REACHE	D   17. DAT				. ELE	VATIONS (	DF, RKI	B, RT. GR. ETC.)*	41	ELEV. CASINGHEAD
4/12/83	4/26/8	3	P&A	11/17/	83			633.00		CB 6647.20	•	
TOTAL DEPTH, MD	4 TVD 21. P	LUG, BACH	T.D., MD &	TVD   22		TIPLE COMPL.	,	23. INT		ROTARY TO		CABLE TOOLS
6398 <b>'</b>		Surfa	ce						<del>-&gt;</del>	0-6398'	3	
											7 1000	W
Plugged ar	RVAL(S), OF THI nd Abandon		ETION—TO	P, BOTTOM,	NAME (	MD AND TVD)*				•	2	5. WAS DIRECTIONA SURVEY MADE
Plugged ar	nd Abandon	ed	ETION—TO	P, BOTTOM,	NAME (	MD AND TVD)*						None
Plugged ar	nd Abandon	ed	ETION—TO	P, BOTTOM,	NAME (	MD AND TVD)*	de vent bu	,				SURVEY MADE
Plugged ar	nd Abandon	ed						- ang(7)				None
Plugged ar	nd Abandon	ed s RUN		ING RECO	)RD (Rej	MD AND TVD)*  port all strings			MENTIN	G RECORD		None  None  Ves
Plugged ar  TIPE ELECTRIC  PIL CNL-FI  CASING SIZE	AND OTHER LOGS	ed s RUN	CAS	ING RECO	ORD (Rep	oort all strings DLE SIZE	s set i	CE	<del></del>		27. W	None
Plugged ar  TIPE ELECTRIC  PIL CNL-FI  CASING SIZE	AND OTHER LOGS OC WEIGHT, LE	ed s RUN	CAS	ING RECO	)RD (Rej	oort all strings DLE SIZE	500	ce O sx H	a1cc	o Lite w/a	27. w	None  None  Ves
Plugged ar  TYPE ELECTRIC  SILCCNL-FI  CASING SIZE  9-5/8	AND OTHER LOGS OC WEIGHT, LE	ed s RUN	CAS	ING RECO	DRD (Reg	oort all strings DLE SIZE	500 & 2	0 sx H 200 sx	alco B v	Lite w/a	27. W	None None Vas Well Cored Vas
Plugged ar  TYPE ELECTRIC  STISCNL-FT  CASING SIZE  9-5/8	MEIGHT, LE	ed s run	CAS DEPTH SI 2018.	ING RECO	DRD (Reg	port all strings DLE SIZE 1/4	500 & 2	0 sx H 200 sx 0 sx 5	alco B v	Lite w/a w/additive ) Pozmix A	27. w	None None VAS WELL CORED  AMOUNT PULLER
Plugged ar  TYPE ELECTRIC  PIL CNL-FI  CASING SIZE  9-5/8  5-1/2	WEIGHT, LE	ed s run	CAS DEPTH SI 2018. 6392.	ING RECO	DRD (Reg Ho	port all strings ple Size 1/4 3/4	500 & :	0 sx H 200 sx 0 sx 5	alco B v	Lite w/a v/additive Pozmix A TUBING REC	dd.	None None Vas Well Cored  Vos  AMOUNT PULLER  0 0
Plugged ar  TYPE ELECTRIC  STICCNL-FT  CASING SIZE  9-5/8	MEIGHT, LE	ed s run	CAS DEPTH SI 2018.	ING RECO	DRD (Reg Ho	port all strings DLE SIZE 1/4	500 & :	0 sx H 200 sx 0 sx 5	alco B v	Lite w/a w/additive ) Pozmix A	dd.	None None VAS WELL CORED  AMOUNT PULLER
Plugged ar TIPE ELECTRIC DIL CNL-FI CASING SIZE 9-5/8 5-1/2 SIZE	WEIGHT, LE 36 17 TOP (MD)	LINER	CAS DEPTH SI 2018. 6392. RECORD DM (MD)	ING RECO	DRD (Reg Ho	port all strings ple Size 1/4 3/4	500 & :	0 sx H 200 sx 0 sx 5	alco B v	Lite w/a v/additive Pozmix A TUBING REC	dd.	None None Vas Well Cored  Vos  AMOUNT PULLER  0 0
Plugged ar  TYPE ELECTRIC  STIC CNL-FT  CASING SIZE  9-5/8  5-1/2  SIZE	WEIGHT, LE 36 17 TOP (MD)	LINER	CAS DEPTH SI 2018. 6392. RECORD DM (MD)	ING RECO	DRD (Reg Ho	port all strings ple Size 1/4 3/4	500 & 3 400	0 sx H 200 sx 0 sx 5	alco B v 0-50	DEPTH SET (M	27. W	NONE NONE NONE NONE AMOUNT PULLER O O PACKER SET (MD
Plugged an  TYPE ELECTRIC  PILCONL-FI  CASING SIZE  9-5/8  5-1/2  SIZE  PERFORATION RE  6320'-6324	WEIGHT, LE 36 17 TOP (MD) CORD (Interval,	LINER BOTTO	CAS DEPTH SI 2018. 6392. RECORD DM (MD) number)	ING RECO	DRD (Reg Ho	oort all strings ble Size 1/4 3/4 SCREEN (Mi	500 & 400	0 sx H 200 sx 0 sx 5 30. size	8 v 0-50	Lite w/a v/additive Pozmix A TUBING REC	dd.ss	NONE NONE NONE NAS WELL CORED VOC AMOUNT PULLER 0 0 PACKER SET (MD
Plugged ar  TIPE ELECTRIC  PIL CNL-FI  CASING SIZE  9-5/8  5-1/2	WEIGHT, LE 36 17 TOP (MD) CORD (Interval,	LINER BOTTO	CAS DEPTH SI 2018. 6392. RECORD DM (MD) number)	ING RECO	DRD (Reg Ho	screen (Millscreen)  3/4  SCREEN (Millscreen)  32.  DEPTH INT  6320-63	500 & 240 DD) ACCERVAL	0 sx H 200 sx 0 sx 5 30. size	alcc B v 0-50	Lite w/a v/additive Pozmix A TUBING REC DEPTH SET (x	dd.s	NONE NONE NONE VAS WELL CORED  VOS  AMOUNT PULLER  O  O  PACKER SET (MD
Plugged an  TYPE ELECTRIC  PILCONL-FI  CASING SIZE  9-5/8  5-1/2  SIZE  PERFORATION RE  6320'-6324	WEIGHT, LE 36 17 TOP (MD) CORD (Interval,	LINER BOTTO	CAS DEPTH SI 2018. 6392. RECORD DM (MD) number)	ING RECO	DRD (Reg Ho	3/4    SCREEN (M)   32.   DEPTH INT   6320-63.   6320-63.	500 & 400 DD) ACCERVAL 24' 24'	0 sx H 200 sx 0 sx 5 30. size	a1cc B v 0-50	Depth set (MA)  CTURE, CEMEN  AMOUNT AND KIN  O gals 15  O SX Class	dd.ss ORD T SQU ND OF	NONE NONE NONE NONE NONE NONE NONE NONE
Plugged an  TIPE ELECTRIC  PILCONL-FI  CASING SIZE  9-5/8  5-1/2  SIZE  PERFORATION RE  6320'-6324	WEIGHT, LE 36 17 TOP (MD) CORD (Interval,	LINER BOTTO	CAS DEPTH SI 2018. 6392. RECORD DM (MD) number)	ING RECO	DRD (Reg Ho	screen (Millscreen)  3/4  SCREEN (Millscreen)  32.  DEPTH INT  6320-63	500 & 400 DD) ACCERVAL 24' 24'	0 sx H 200 sx 0 sx 5 30. size	200 250	Depth set (MA)  CTURE, CEMEN  AMOUNT AND KIN  O gals 15  O SX Class	dd.ss ORD T SQU ND OF	NONE NONE NONE NAS WELL CORED VOC AMOUNT PULLER O O FACKER SET (MD EEZE, ETC. MATERIAL USED

33.*		DI GCIG					
5/6/83 DATE OF TEST		ion method (Fig ib Well	owing, gas lift, p	umping—size and t	ype of pump)	shut-in)	rus ( <i>Producing or</i> ged & Abandoned
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BÉL.	GAS-MCF.	WATER-BBL.	GAS-OIL RATIO
5/6/83	9 Davs	1"	<b>──→</b>	45	NETG	556	_
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS-MCF.	WATER-	The state of the s	GRAVITY-API (CORR.)
	1 0	<del>&gt;</del>	ļ. <b>-</b>	_	· -		
34. DISPOSITION OF G	as (Sold, used for fu	el, vented, etc.)		<del> </del>		TEST WITNESSED	BY
Vented	· .					J. A. Cla	rk/H. R. Leepe
35. LIST OF ATTACH	MENTS						<del> </del>

36. I hereby certify that the foregoing and attached inform	ation is complete and correct as determined from all available records
SIGNED Many Mass	TITLE Director, Petroleum Eng. DATE 2-1-84

# INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and present easts, and see item 35.

Should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

or Federal office for specific instructions.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hem 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hem 29: "Sacks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

18: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

	æ	TOP	H TRUE VERT. DEPTH	<del></del>		<del> </del>	*****			•	-			<del></del>			**************************************			·			 •
.,.	GEOLOGIC MARKERS		MEAS. DEPTH	Surface	1,117	1,270	1,303	2,028	2,680	2,803	4,615	5,344	6,018	6,071	6,155	6,206	6,263	608,9		6,320	6,390		 
	38. GBOLO			Morrison	Entrada	Carmel	, Navajo	Chinle	Shinarump	Cutler	Honaker Trail	Paradox	Upper Ismay	Ismay Shale	Ismay Base	B Zone Shale	Desert Creek	Lower Bench DC	Desert Creek	Porosity	Salt		<u> </u>
	ter thereof; cored intervals; and all drill-stem tests, including pen, plowing and shut-in pressures, and recoveries	DESCRIPTION, CONTENTS, ETC.	Cored		DST #1: 10 30 mins, ISI 90 mins, F0 120	mins, FSIP 240 mins, opened strong, 5 mins	8 psi, 15 mins 9 psi, 30 mins 10 psi, NGTS		45 mins 4 psi, gas to surface in 45 mins,	NETG, recovered 30' gas & oil cut mud.		DST #2: IO 30 mins, ISI 90 mins, FO 240	mins, FSIP 360 mins, opened weak inc to	med blow in 10 mins, 30 mins 3 psi, 2nd	open weak to bottom of bucket in 7 mins,	15 mins 3 psi, 210 mins 3 psi w/gas to	surface, recovered 110' gas cut mud.						
	ROSITY AND CONTENUSED, TIME TOOL D	BOTTOM	63651		63651							63981				,	·				<i>r</i>		
	MARY OF POROUS ZONES: Bhow all, important cones of porosity and contents thereof depth interval tested, cushion used, time tool open, plowin	TOP	63051	•	63201							6318											
	87. SUMMARY OF POROUS ZONES (SHOW ALL IMPORTANT ZONES (DEPTH INTERVAL TESTED, CUSE	FORMATION	Desert Creek		Desert Creek	•						Desert Creek										_ <del></del>	: